



The CHEMIST AND DRUGGIST

Established 1859

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No. 2811.
VOL. CXIX.

DECEMBER 23, 1933

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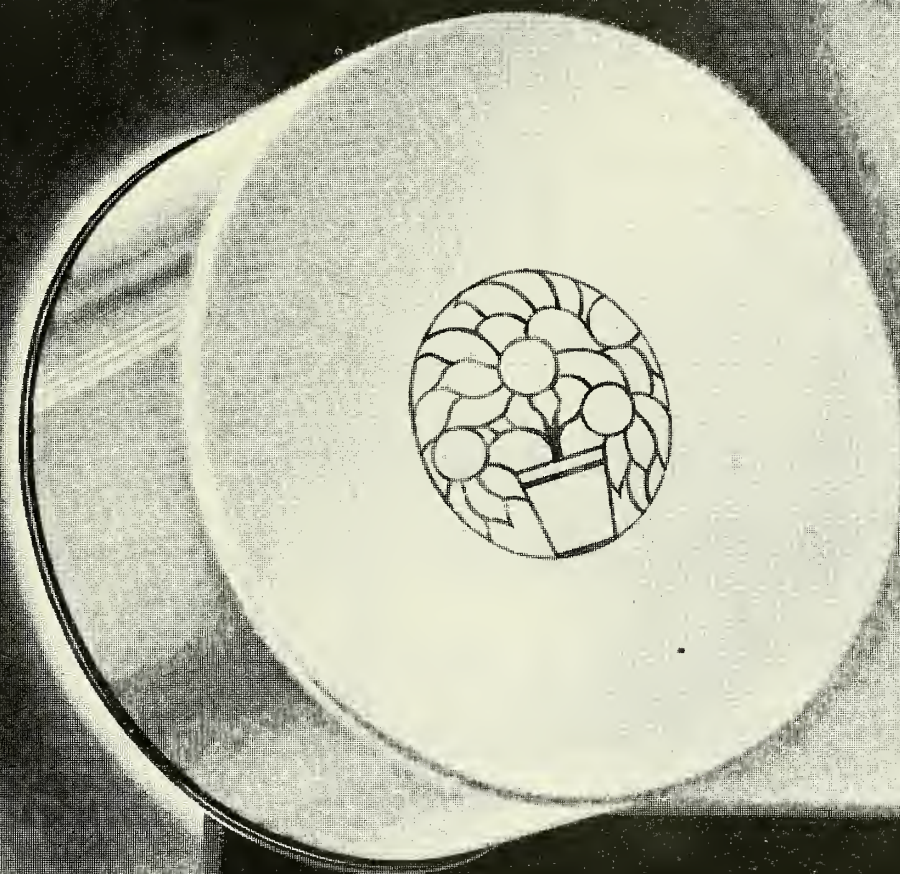
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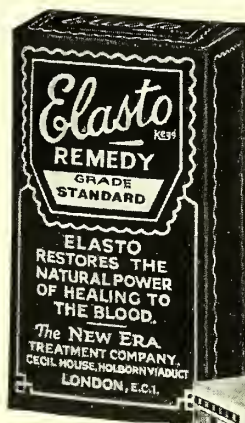
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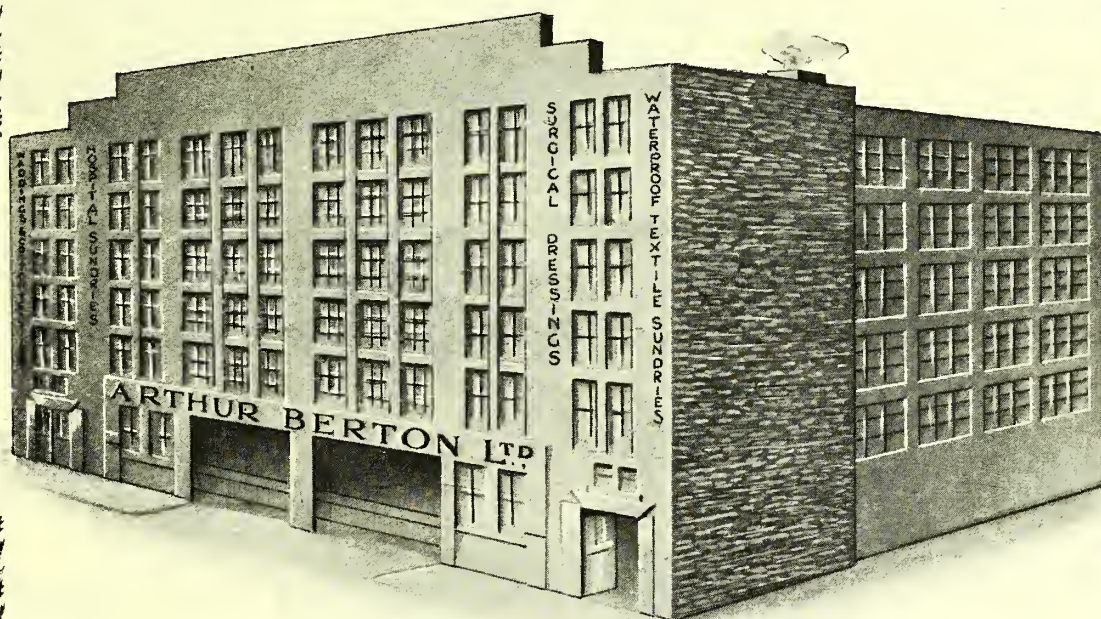
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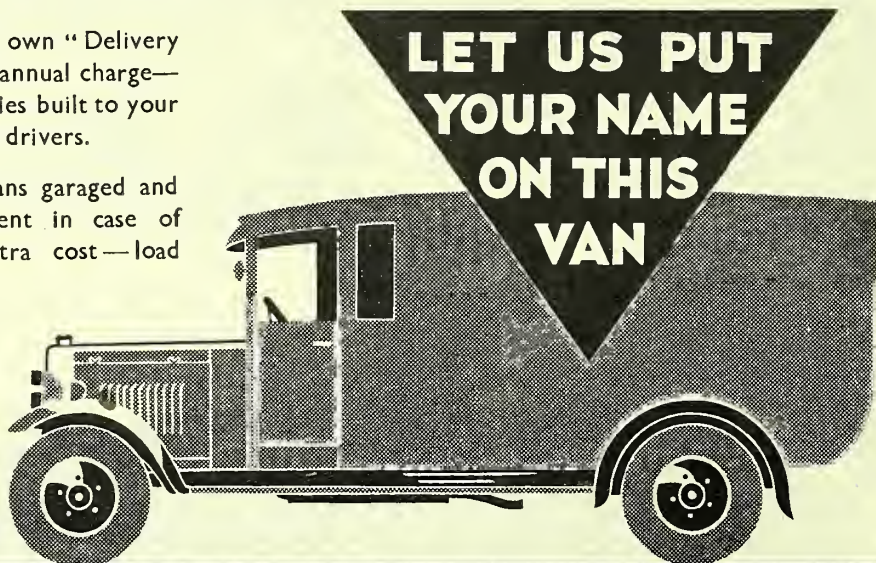
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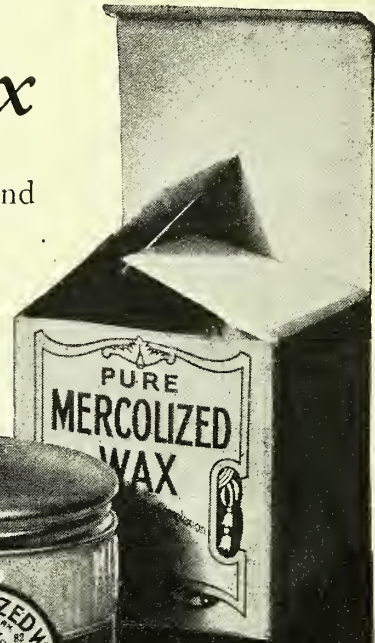
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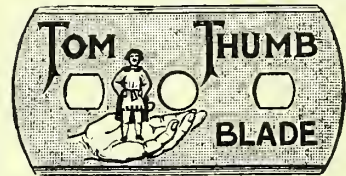
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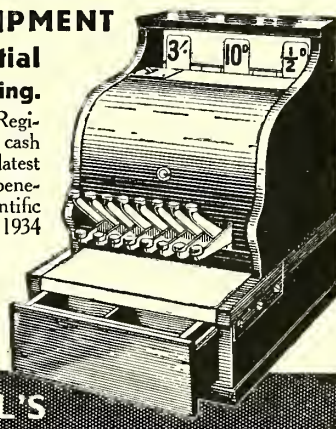
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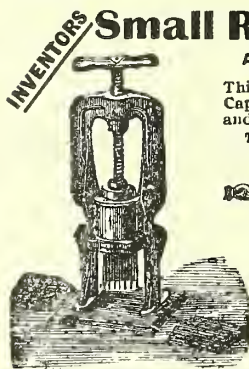
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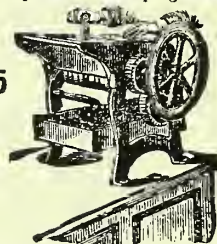
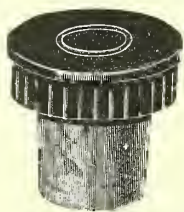


Fig. B. No. 2. ROTARY CUTTING MACHINE

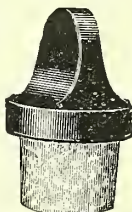
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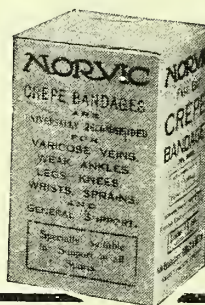
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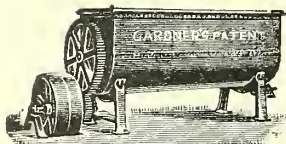
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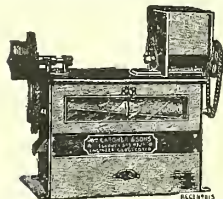
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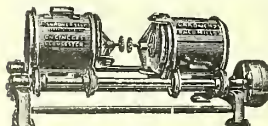
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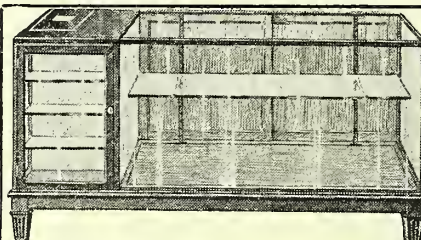
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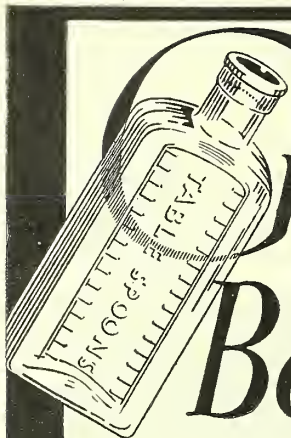
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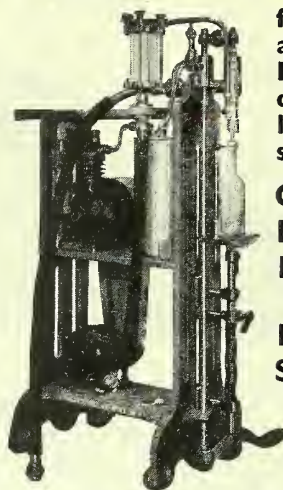
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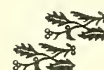
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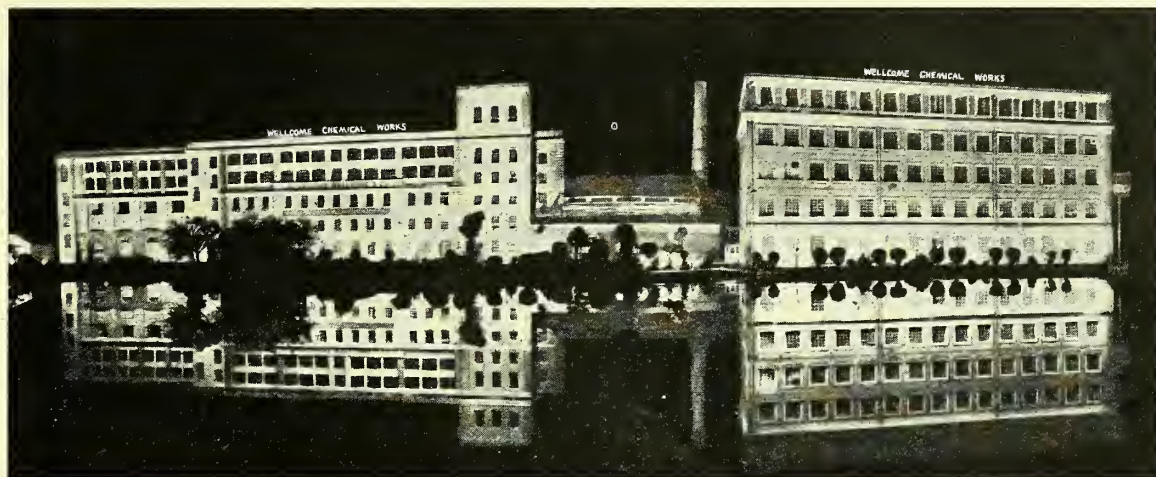
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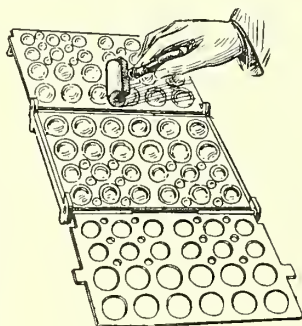
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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,
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The Chemists' and Druggists' Society of Ireland, and of
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News of the Week

Import Duties Advisory Committee—Crude Drugs Inquiry

The Import Duties Advisory Committee give notice that they have under consideration an application for the exemption of dried foliage, dried flowers, dried plants and dried roots from the additional duties imposed under the Additional Import Duties (No. 5) Order, 1932. Any representations which interested parties may desire to make in regard to this application should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tothill Street, Westminster, London, S.W.1, not later than January 15, 1934.

Import Duties—Exemptions and Additional Duties

H.M. Treasury have issued the Import Duties (Exemptions) (No. 12) Order, 1933, whereby the following goods are to be added to the Free List under the Import Duties Act, 1932, and will therefore be free of duty on and from December 27, 1933:—

Synthetic organic dyestuffs (including pigment dyestuffs) whether soluble or insoluble, and compounds, preparations and articles suitable for use in dyeing manufactured from such dyestuffs, but not including organic intermediate products used both as dyestuffs and in the manufacture of dyestuffs.

Under the Additional Import Duties (No. 23) Order, 1933, H.M. Treasury have authorised an additional duty of 10 per cent., making the total duty payable 20 per cent. *ad valorem* on the following classes of goods. The increased rate of duty will operate on and from December 27, 1933:—

Synthetic organic colours and colouring matters.

In explanation of these two Orders it is pointed out that the Exemption Order No. 12 relating to synthetic organic dyestuffs covers the classes of goods (other than intermediate products) that will be liable to prohibition of import except under licence, under the new Dyestuffs (Import Regulation) Bill. It has been the usual practice under the 1920 Dyestuffs Act to issue licences in respect of dyestuffs of a kind that are not made here, and, with that practice continuing under the permanent legislation, the Treasury have agreed to allow free import where licences are granted. The Additional Duties Order No. 23 refers to classes of goods that were hitherto covered by the Dyestuffs Act, 1920, but for which a general open licence has been issued to allow import. Now that there will be no restriction of import on these classes of goods (pigments which are synthetic organic colours and colouring matters), the Treasury have imposed the additional duty.

Merchandise Marks Act—Mounted Thermometers

The Standing Committee appointed under the Merchandise Marks Act, 1926, have issued a report (Imported Goods Exemption Direction No. 2, 1933) advising the Board of Trade that they concur in the Direction issued by them on July 4, 1933, relating to the Merchandise Marks (Imported Goods) No. 5 Order, whereby mounted thermometers were exempted from marking in accordance with No. 5 Order. The Direction is as follows:—

It shall be a sufficient compliance with the provisions of Article 4 of the Merchandise Marks (Imported Goods) No. 5 Order, 1929, if in the case of any mounted thermometer the indication of origin is stamped, printed, impressed, stencilled or branded in a contrasting colour on the front of the scale or mount.

Dyestuffs (Import Regulation) Bill

The text of the new Dyestuffs (Import Regulation) Bill, which is being promoted by the Board of Trade for the purpose of amending and making permanent the Dyestuffs (Import Regulation) Act, 1920, has been issued. The principal amendment relates to the descriptions of goods prohibited to be imported, except under licence, as follows:—

Synthetic organic dyestuffs (including pigment dyestuffs), whether soluble or insoluble; compounds, preparations and articles manufactured from any such dyestuffs, except any such compounds, preparations and articles as are not suitable for use in dyeing; and organic intermediate products used in the manufacture of any such dyestuffs.

Other amendments refer to the composition of the Dyestuffs Advisory Licensing Committee, and the setting up of a committee to advise the Board of Trade with respect to the efficient and economical development of the dye-making industry. Copies of the Bill may be obtained from H.M. Stationery Office, Kingsway, W.C.2, price one penny.

In accordance with the recommendations of the Import Duties Advisory Committee in their report to the Chancellor of the Exchequer on dyestuffs, the Board of Trade are issuing an open general licence under the Dyestuffs (Import Regulation) Act, 1920, with effect from December 27, authorising the importation of the goods which the Advisory Committee recommend should no longer be subject to prohibition. The licence will permit the importation of compounds, preparations and articles, not suitable for use in dyeing, manufactured from synthetic organic dyestuffs (including pigment dyestuffs), whether soluble or insoluble.

Import Duties Act—Steel Bulbs for Syphons

H.M. Treasury have issued Order No. 22, dated December 11, cancelling the additional import duty imposed on steel bulbs of a kind used in aerated water syphons, under the Additional Import Duties (No. 11) Order, 1933, as from December 14, 1933. It should be noted that the article in question does not become a free import; it will now be liable only to the general 10 per cent. import duty.

British Standards Institution Specifications

The British Standards Institution has issued seven new specifications covering phenol and the whole range of the more generally used cresylic and carbolic acids. Certain of the specifications are of importance to pharmacists and to manufacturers of products derived from phenol or cresol. The soap, perfumery, photographic, dyestuffs and synthetic resin industries are also interested in many of the new specifications. These new British standards are:—

- 515-1933. Crude Carbolic Acids, 60's and 45's.
- 516-1933. Distilled Carbolic Acids, 60's and 45's.
- 517-1933. Cresylic Acid of High Orthocresol Content.
- 521-1933. Cresylic Acid (50/55 per cent. Metacresol).
- 522-1933. Orthocresol, Metacresol and Paracresol.
- 523-1933. Phenol.
- 524-1933. Refined Cresylic Acids.

Copies can be obtained from the Publications Department, British Standards Institution, 28 Victoria Street, London, S.W.1, at 2s. 2d. each, post free.

Poisons Board

We understand that the Poisons Board, which held its first meeting on December 7, is making progress in the accomplishment of its task; indeed, we believe that it has already given consideration to a draft list of poisons in which several letters of the alphabet figure to denote the classification of poisons.

Dangerous Drugs Acts, 1920-1932

The Secretary of State for the Home Department gives notice that, in conformity with the provisions of the International Convention of 1931 for limiting the manufacture and regulating the distribution of narcotic drugs he has made Regulations in pursuance of subsection (3) of Section 2 of the Dangerous Drugs Act, 1932, for con-

trolling the manufacture, possession and wholesale distribution of methylmorphine (commonly known as codeine), ethylmorphine (commonly known as diionin) and their respective salts. The Regulations, which are dated December 15, 1933, come into force on January 1, 1934, and are in substantially the same form as the draft Regulations of which notice was given in the "London Gazette" and "Edinburgh Gazette" of November 3, 1933. Copies of the Regulations may be obtained on application to the Under Secretary of State (Room 212), Home Office, Whitehall, London, S.W.1.

Home Office,

Whitehall,

December 19, 1933.

[The text of the draft Regulations was published in the C. & D., November 11, p. 582.]

Society of Chemical Industry

The Gluckstein memorial lecture was delivered in London, on December 15, by Dr. Herbert Levinstein, past-president of the Society of Chemical Industry. He pointed out that a training in science, particularly if followed by works practice, gave a unique experience. "We have too little 'educated money' in this country," he added. Discussing industry and the State, Dr. Levinstein drew attention to the fact that one or two measures forcing compulsory marketing methods had been passed through Parliament. "It is well," he remarked, "for us to lift our eyes from the laboratory bench and not to lock ourselves up in our laboratories oblivious of the great changes in industry that are taking place outside. . . . The direction of industry to-day is not a simple matter on which one can dogmatise."

Birmingham

An additional sixteen acres of the Chadwick Manor Estate, adjoining the Lickey Hills, near Birmingham, has been purchased by Mr. Edward Cadbury and handed over to the National Trust.

A Christmas dance was arranged by the Birmingham Pharmaceutical Association on December 13, at the Botanical Gardens, Edgbaston, and proved to be a very enjoyable function. Mr. Tidman acted as M.C., and the prizes were gained by the following:—Dr. Roberts and Mrs. McBroom, Mr. Frost and Miss Perkins, Mr. J. W. Cox and Miss Broadbent, and Miss Coates and Miss Rabone.

Manchester

The many friends and colleagues of the late Mr. Alfred Jeans were shocked to learn of his untimely death following the accidental ignition of methylated spirit.

During the last few months Piccadilly, Manchester, has been brightened by the erection of various Neon signs. The latest comer, and certainly the most effective, is a flashing sign for "Zam-Buk" and "Bile Beans" erected by C. E. Fulford, Ltd., of Leeds.

Miscellaneous

THEFT OF CAMERAS.—The window at the pharmacy of Mr. J. F. Edden, chemist and druggist, Petts Wood, Kent, was smashed recently and five cameras were stolen.

WINDOW-DRESSING AWARD.—At the recent Sandown, Shanklin, shopping week window-dressing competition the first prize in the class open to chemists was awarded to Boots, Ltd., and the second to W. T. Deeks & Son.

MEDICAL ACT, 1858.—At West London Police Court, on December 18, Mr. John R. Taylor, Cromwell Road, S.W., was fined £20, with £10 10s. costs, for unlawfully using medical titles. It was stated that the letters "M.D.U.I." appeared on a brass plate outside his premises, the reference being to the University of Illinois.

EGYPT AND THE EMPIRE.—We learn that window bills bearing the words "Buy British Empire Produce. Alexandrian Senna Pods" are being distributed. As Egypt is not part of the British Empire, the description is misleading, and chemists may, by exhibiting the bills, commit an offence under the Merchandise Marks Acts.

FIRES.—The following outbreaks of fire have been recorded since our last report:—An outbreak of fire occurred on December 16 at the premises of Mr. R. Pickup, chemist and druggist, Blackburn.—The premises of Howards & Sons, Ltd., Ilford, were the scene of an outbreak of fire on December 18. Writing to us regarding this event, Messrs. Howards state that the fire was confined to a portion of the salicylic acid plant, and will not cause any delay in dealing with orders for aspirin and other salicylates.

CHARGE OF FRAUD.—At North London Police Court, on December 7, Harry Keane, described as a chemist, appeared on remand charged on a warrant with converting to his own use toilet bottles received by him on account of Andolin, Ltd., between April 12 and November 22. The prisoner was represented by Mr. Leonard Lewis, and Mr. J. C. Maude appeared for the prosecution. Mr. Maude said that though there was a mass of detail, it was really a simple case. It was that this man was a director of a company, and when that company was obviously about to "go on the rocks" the defendant, knowing that a receiver had been appointed, took away property in order to feather his own nest in another firm. Evidence was given by Mr. Ernest Dill, Raymond Avenue, Ealing, and Mr. Anthony Raidl, Hatton Garden. Further evidence for the prosecution was given on December 14 by Mr. A. G. Dambisch and Mr. B. Levy.

SPORTING EVENTS.—The Ipswich Chemists' Hockey Club, mixed team, met Bungay at Bungay on December 6. The chemists played exceptionally well, but were unfortunately unable to beat their opponents, and the match resulted in a draw of 2—2.—The Liverpool School of Pharmacy football team beat Lombardians II by 4—3 in a match at Liverpool on December 6.—Potter & Clarke's "A" XI, in the London Business Houses Football Association, premier division, played against B.D.V. and won 3—1. Potter & Clarke's "B" XI, in the London Business Houses Football Association, division I, played against Batavier and won 3—1. Potter & Clarke's netball "A" team (girls), in the London Business Houses Netball Association, second division, played away against Wakefield and won 19—13. Potter & Clarke's "B" team (girls), in the London Business Houses Netball Association, third division, played away against Briggs Motor Bodies and lost 27—7.

IN THE COURTS.—At Chesterfield, on December 12, George Barnes, G. Douglas Barnes, John Whyte, Robert Johnston and David Bowman were committed for trial, on bail, on a charge of conspiracy to defraud. It was alleged that they went to houses and represented that they were selling goods on behalf of Boots, Ltd., who were not advertising but preferred to sell a tooth-paste through travellers and to give away certain articles in return for 1s. 3d. paid for the tooth-paste.—At Bow County Court, London, recently, the Pharmaceutical Society of Great Britain obtained judgment in the sum of £5 against G. F. Porter, Lea Bridge Road, E.10, an unregistered person, for keeping open shop for the sale of lysol.—At the Royal Court of Jersey, recently, Herbert L. R. Priest was fined £5, with £2 costs, for having practised medicine on his premises in Conway Street, St. Helier. The defendant, who is not a registered chemist, said he had crossed to Jersey with the intention of opening a drug store. A lad brought to him was certified to be suffering from blood poisoning, and he undertook to treat him for skin disease.

PHARMACY AND POISONS ACT.—A report submitted to the Lewisham (London, S.E.) Borough Council contains the following passage relating to Part II of the Poisons Schedule to be prepared under the provisions of the Pharmacy and Poisons Act, 1933:—"... the volume of work to be undertaken in large areas by inspectors of local authorities will probably be substantial. For if, as is probable, a majority of grocers, ironmongers, oil and colour dealers and seedsmen register themselves as sellers of poisons, it will be necessary to see that at all the shops concerned the regulations as to the storage, labelling and distribution of the poisonous articles are observed. In many instances samples will have to be procured and in some cases it will possibly be considered

preferable to enforce the Act through the inspectors appointed on the staff of the local authority. Against the cost of administration will be set the fees received by the local authority each year from registered sellers of poisons; and if these fees are fixed by the Home Secretary at an adequate figure, it may be possible for local authorities to perform the required duties without any appreciable additional cost."

Scottish Notes

Sale of Methylated Spirit Discussed

Interest in the sale of methylated spirit in Scotland has caused further reports on various aspects of the subject. One of our correspondents states that Glasgow is to join with Edinburgh, Dundee and Aberdeen in making representations to the Secretary of State for Scotland to introduce new legislation governing the sale of methylated and surgical spirits in an effort to stamp out the drinking of "red biddy." A report was submitted last week to a subcommittee of the Glasgow magistrates in which it was shown that convictions for methylated spirit drinking had shown an increase, while the convictions for ordinary drunkenness had declined. The chief constable recommended (1) that the right of sale should be invested only in fully qualified chemists and (2) in every sale, however small, it should be necessary for the seller to obtain the name and address of the purchasers, as in the case of poison. Another report refers to Dundee, and states that the town clerk has addressed a circular letter to several town councils asking them to send representatives to a proposed conference on the methylated spirits problem. "Dry-salter," writing to a Glasgow newspaper, states "There seems an altogether disproportionate attention being drawn to this matter. . . . Let these methylated spirit drinkers be dealt with suitably, and not worry a respectable trading community. . . . An output of 1,000 gallons per day of methylated spirit (being the amount used in Glasgow for innumerable industrial, heating and cleaning purposes) is to be created a monopoly in the hands of chemists only. Why chemists? They alone have the right of sale of surgical spirits, which, on the chief constable's authority, is conspicuous in this evil. Yet the trade that in this matter stands condemned is to be constituted the only one qualified to sell methylated spirit. No right-thinking person will question the necessity of dealing with this evil in a judicious way, but the present agitation bears evidence of being ill-considered." (See *C. & D.*, November 4, p. 561.)

Brevities

December 25, January 1 and January 2 will be observed as holidays by wholesale houses.

Mr. James Coutts, Ph.D., Ph.C., has been appointed chief assistant dispenser at North Middlesex County Hospital.

At the second of a series of free lectures, held at Glasgow University, Emeritus Professor F. O. Bower dealt with the development of the teaching of natural science.

The annual reunion of the Dundee School of Pharmacy Former Students' Association will be held in the Central Hotel, Ward Road, Dundee, on Monday, December 25. Tickets are 7s. 6d. each, and all former students are invited.

"Scotia" writes:—"Intimation of the death of Mr. John Humphrey (*C. & D.*, December 16, p. 728) was received with deep regret in Scotland. Many chemists who did not know him personally had come to appreciate his sterling qualities through his special contributions to the *C. & D.*"

In contrast to the inclement weather being experienced in the South, excellent conditions are prevailing in the Orkney and Shetland Islands. Mr. Ian W. Howie, representing Pinkerton, Gibson & Co., Ltd., wholesale druggists, Edinburgh, has just returned from there, crossing from Orkney to the mainland by aeroplane. This is probably the first time that a Scottish representative of a drug firm has used air transport in the ordinary course of his journeys.

Irish Notes

Ulster Retail Drug Trade Association

The monthly meeting of the Executive Committee of the Ulster Retail Drug Trade Association was held in the Grand Central Hotel, Belfast, on December 5, Mr. William Martin (president) in the chair. There was a large attendance. The president cordially welcomed the new members elected at the annual meeting. Apologies for absence on account of illness were received from Mr. James Dundee (vice-president) and Mr. A. Steede. Miss C. Culbert wrote expressing her regret that she would be unable to act on the Executive Committee. Miss Culbert's resignation was accepted with regret, and Mr. Horatio Todd, J.P., was unanimously co-opted to fill the vacancy. Mr. Taggart spoke regarding the early closing hour, and suggested that, in view of the present unsatisfactory state of affairs regarding the observance of the Order, steps should be taken to have the position clearly defined. After discussion Mr. Shinner and the secretary were appointed to interview the proper authorities concerned and report. Mr. J. Adams and Mr. A. Steede were appointed representatives to the Belfast Chamber of Trade, and Mr. Walter C. Tate was appointed to act in a similar capacity to the Ulster Tourist Development Association.

Mr. Shinner initiated a discussion on the practice, adopted by some manufacturing firms, of offering "free gifts" with their goods, and gave some illuminating examples of the adverse business effect of this form of advertisement. Every member expressed strong condemnation of this policy, and the following resolution was proposed by Mr. Shinner, seconded by Mr. Hardy, and passed unanimously; and the secretary was instructed to have this resolution sent to the various trade journals and other interested parties.

"That this Association views with alarm and indignation the practice adopted by certain manufacturers in giving 'free gift' offers with their goods, to the detriment of the distributing trades.

"That, as a Trade Defence Association, we condemn such practice and recommend our members to abstain from handling such offers.

"That exception be made in the case of 'speciality' offers, that is, goods specially made for free distribution and of which no equivalent is obtainable through the usual channels of trade.

"That we request the P.A.T.A. to, if possible, influence their manufacturer members to refrain from this practice as inimical to the best interests of those on whose co-operation they depend for the successful distribution of their goods.

"That the U.R.D.T.A. representatives to the Belfast Chamber of Trade be requested to bring this resolution to the notice of that body at its next meeting."

Various price alterations were considered and adopted. During an interval the president entertained the members to tea; and at the conclusion, a vote of thanks for his kind hospitality was proposed by Mr. Hardy, seconded by Mr. Culbert, and passed unanimously. Mr. Martin suitably replied.

Brevities

Miss M. Morris, Ph.C., has acquired O'Farrell's Pharmacy, Donnybrook.

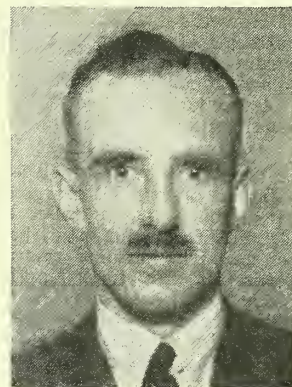
Mr. M. P. McGoldrick, Ph.C., has opened a pharmacy at 10 William Street, Galway.

Mr. Fred Storey, Ph.C., was present at the annual congress of the British Institute of Radiology, held in London, recently.

Miss E. Gladys Graham, daughter of Mr. G. B. Graham, M.P.S.I., Dolphin's Barn, Dublin, having completed her medical course at Trinity College, Dublin, has had the M.B. degree conferred upon her.

At a special meeting of the Court of Shareholders of the Apothecaries' Hall of Dublin, held on December 1, Dr. Michael Ryan, M.P.S.I., 12 Lower Camden Street, Dublin, was elected a member of the board of directors of the Hall in room of the late Mr. P. E. Hayden, F.R.C.S.

Dr. Alexander Taylor McKay, Ph.C., who has been elected an examiner in pharmacy by the Council of the Pharmaceutical Society of Ireland, has had a brilliant record both in pharmacy and medicine. Dr. McKay, who is a native of Aberdeenshire, Scotland, came to Dublin in 1919 as assistant at Dr. Ashmore's International Pharmacy, Dawson Street. In the following year he qualified as a pharmaceutical chemist with the highest distinction of the Society, namely, the securing of the gold medal. After qualifying, Dr. McKay became manager of Dr. Ashmore's branch pharmacy in Wexford Street, Dublin, and remained there until the branch was closed in 1925. During that period he took up the study of medicine and graduated with honours through the National University of Ireland. On qualifying as a medical man Dr. McKay ceased his active connection with pharmacy and went into practice on the south side of Dublin, where he is one of the busiest general practitioners in that part of the city. Dr. McKay is a member of the British and Irish Medical Associations and is a Fellow of the Royal Academy of Medicine in Ireland. He is this year's president of the St. Andrew's Society of Dublin. Outside his practice Dr. McKay is a very active worker in the St. John's Ambulance Brigade, of which he is a divisional surgeon. He did especially good work during the Eucharistic Congress in Dublin, when he trained many volunteers in first aid for that occasion.



DR. ALEXANDER TAYLOR MCKAY, PH.C.

Belfast

At Belfast Police Court, recently, Mr. A. E. Johnston, Ph.C., Shankill Road, was fined 20s., with costs, for having sold a compounded drug deficient to the extent of 16.3 per cent. in potassium iodide.

The staff and friends of Thomas McMullan & Co., Ltd., wholesale druggists, held an enjoyable dance in the Plaza, Belfast, on December 6. There was a large attendance. The directors were represented by Mr. Frank McMullan, jun., who deputised for Sir Thomas McMullan. Under the direction of Mr. T. W. Gibson as M.C., everything went smoothly.

Westminster Wisdom

Notes on Parliamentary Matters

INSULIN

Replying to a question put by Dr. Howitt, on December 19, the Lord President of the Council (Mr. Baldwin) stated that he was advised that there is no present prospect of scientific research leading to further material decrease in the economic cost of production of insulin. As there are no longer any patent rights in the process, licences in this particular respect are not required by manufacturers.

In reply to other questions on the subject of the cost and production of insulin, the Parliamentary Secretary to the Ministry of Health (Mr. Shakespeare) said that he would not accept as a fact the statement made by Sir F. Fremantle that at present the price of foreign insulin is 1s. 5d. and of British insulin 1s. 8d. to 2s. (Sir F. Fremantle, in an earlier question, also said that there was the prospect that the price of foreign insulin would come down to 1s. 3d. if the tax were removed.)

DYESTUFFS (IMPORT REGULATION) BILL

In moving the second reading of the Dyestuffs (Import Regulation) Bill (p. 748) on December 18, the Parliamentary Secretary to the Board of Trade (Dr. Burgin) stated that in 1913 the output of synthetic dyestuffs in this country was a little over 9,000,000 lb.; in 1922, it had risen to over 23,000,000 lb.; in 1929, due perhaps to the protection afforded by the Act, it was about 56,000,000 lb. Not only has that expansion of the weight of synthetic dyestuffs been so surprising, but in 1913 only 22 per cent. of our consumption of synthetics was made in this country; in 1922, the percentage had risen to 79, and from 1928 onwards the percentage had increased until it is now in the neighbourhood of 91 per cent. Imports of synthetic dyestuffs have fallen from 41,000,000 lb. in 1913 to only 4,000,000 lb. in 1932. A very large number of special dyestuffs, however—something like 2,000—are still imported in small quantities. No intermediaries were made in this country at all in 1913, but in 1932 our imported intermediaries, which were just over 500,000 lb. in weight, represented only 1 per cent. of our total output of dyestuffs. Before the War the average price of dyestuffs, taking into consideration the quantities sold, was something like 1s. a lb. In the year 1920, owing to War prices, to the astonishing demand that had been made for dyestuffs and to the general upheaval of British industry, the price had risen as high as 4s. 4d. a lb. By 1928, owing to the increased manufacture, that price of 4s. 4d., the post-War figure, had been brought down to 1s. 6½d. a lb., or only about one and a half times the pre-War price. Since 1928 further reductions in dyestuffs have been made, but we can treat the level of prices as approximately 1s. 6½d. a

lb. In Germany, for instance, the price in 1913 was a little over 10d. a lb.; in 1931, it was 1s. 9d.; in 1932, it was 2s. 0½d.; in 1933, it is roughly 2.3 times as much as it was in 1913. So that, whatever may be the comparison between our own pre-War and 1932 prices in England, 150 per cent. of pre-War compares very favourably with Germany, the great continental home of dyestuffs, which has over 200 per cent. increase in its export prices. With regard to the International Cartel, Dr. Burgin said that this organisation provided for a very sensible pooling of markets by the interests concerned, and, provided the consumer does not suffer, an admirable arrangement. The prices were increased some 22½ per cent. at the time when the Cartel came into operation. The actual Cartel agreement, which, hitherto, only parties to it could see, has been tabled before the Import Duties Advisory Committee, who had an opportunity of considering it and any addenda to it; and the Committee give it as their considered opinion that there is nothing in the Cartel or in its working which gives an undue advantage to the manufacturer. In the course of the debate Dr. Burgin again referred to the International Cartel as not, in itself, in the least a harmful organisation. The British export trade owes a great deal of its advance to cartels, in the sense of international agreements whereby, instead of cut-throat competition, the different interests concerned have agreed that they would not oppose each other in certain markets. He could tell the House, from experience at the Board of Trade, of numbers of cartels which are proving of the greatest possible advantage to British export trade.

The Bill was read a second time and committed to a Standing Committee.

Topical Reflections

By Xrayser

The Romance of Drugs

was strikingly exemplified by Mr. Bernard Howard in his Harrison memorial lecture on "Cinchona and Civilisation" (*C. & D.*, December 16, p. 734). Unlike opium, records of which can be traced back to the first century of the Christian era, the early history of cinchona is lost in obscurity. Although Peru was discovered in 1513 and had submitted to the Spanish yoke by the middle of the sixteenth century, no connection of the febrifuge bark with the name of the country is to be found earlier than the beginning of the seventeenth century. It is strange that, according to several authorities (Humboldt, Spruce and Markham particularly), the natives of Peru were prejudiced against the use of the bark as a medicine, although Spruce says that it was used for dyeing cloth. It is interesting to learn that Luke Howard, F.R.S., was manufacturing quinine in this country as long ago as 1823. A small book has just come into my possession, a translation of the "Formulaine" of M. Magendie, by Joseph Houlton, F.L.S.; the date is 1828, and there is a fairly extensive section devoted to cinchona bark and the "alkalis" obtained from it. Many of us remember with pleasure the late Mr. E. M. Holmes's article in the Special Issue of the *C. & D.* of June 28, 1930, devoted to the tercentenary of cinchona.

"Overdoing It,"

the title of a recent editorial article in the *C. & D.*, fittingly sums up the suggestions of the Pharmaceutical Society upon the training and control of apprentices. Broadly, to-day, there are two classes of pharmacists who accept apprentices. There is the class, the members of which are few, comparatively, but who can train apprentices, because they are born teachers and in their pharmacies they have the necessary equipment and engage in the practical work of manufacturing. Some of our best pharmacists in retail and manufacturing have been trained by men of this type. The

second class is composed of those who take apprentices because to do so provides them with cheap labour. They do little or no manufacturing, even of the most elementary kind. If pharmacists as a class, either through indifference or lack of interest, allow the Society to put its suggestions into practice, employers of the second class will stop taking apprentices; and within a few years after the new régime has begun there will be a serious shortage. The suggestion of Dr. J. P. Todd (*C. & D.*, December 16, p. 727) that four years should be the period of training, partly in the shop and partly in the college in the last two years, is, in my opinion, a sound one. A pharmaceutical chemist with more than one successful business has made the suggestion that a period of training with a wholesale house or hospital should be a compulsory part of the training of the pharmacist under the new regulations. Every local association should attack this problem.

The Death of Mr. John Humphrey

has deprived pharmacy of a man who, as a contributor to your columns, was known all over the world as a scholarly and helpful writer. He was a born teacher, and remained till the last young in spirit and a friend of youth. In the eloquent tributes that appeared in your issue of December 16 I have not seen any reference to his remarkable success as chairman of the British Pharmaceutical Conference at its Cardiff meeting in 1930. Not long before the event he had been ill, and it was at one time doubtful whether he would be able to carry out his duties in the chair. But there was no trace of weakness, either in his address (which, as the *C. & D.* commented at the time, ended with "suggestions . . . that may well form a starting point for staking out the claims of the coming generation"), or in his alert supervision of the discussions in the Science Section. I well remember that after the closing session he came down from the platform looking radiantly happy.

Legal Reports

Medicine Stamp Acts.—At Chatham, on December 13, Patent Medicines (Competitive), Ltd., Southend-on-Sea, were summoned for having sold at Chatham a dutiable medicine unstamped. Mr. J. N. B. Laine prosecuted, and defendant company was represented by the general manager, Mr. William Thomas Davison, who pleaded "Guilty." Mr. Laine said the offence consisted in selling catarrh pastilles liable to stamp duty in a box which was unstamped. Mr. Herbert Adderley, customs officer, proved the purchase of the pastilles, and added that the shop was not under the control of a qualified chemist, but there was a patent medicine licence in respect of it. Mr. Davison said he had been managing the company's business for four years, and this was the first case that had been brought against the company, although they were conducting many similar sales. The law on the subject was so complicated that convictions could easily be obtained. The Bench dismissed the case on payment of £2 2s. solicitor's costs and 4s. court fees.

Trade-Marks Case : Appeal.—On December 12 the House of Lords, composed of Lord Atkin, Lord Tomlin and Lord Russell of Killowen, heard an appeal by Irving's Yeast-Vite, Ltd., against Mr. Frederick Alexander Horsenail (trading as the Herbal Dispensary), Northgate Street, Canterbury. Respondent did not appear and was not legally represented at the hearing of the appeal, which was from a judgment of the Court of Appeal affirming Mr. Justice Bennett's decision. Mr. Trevor Watson, K.C., and Mr. K. S. Swan were for the appellants. Mr. Watson said Mr. Justice Bennett granted an injunction against passing off, but refused to grant one against infringement of trade mark. The Court of Appeal affirmed his decision. Under the Trade Marks Act, 1905, Section 39, the proprietor of a trade mark was given the exclusive right to use the trade mark upon or in connection with the goods for which the trade mark was registered; and the short point arising upon this appeal was to what extent, if any, the exclusive right was subject. The appellants were owners of a registered trade mark consisting of the words "Yeast-Vite," and the registration carried the exclusive right to use the trade mark in any form. The respondent had a business in which he sold a number of medicinal preparations. Counsel handed to their lordships photographs of the respondent's shop window, and said the respondent called his place of business a herbal dispensary. He had a second shop in Canterbury. The photographs showed two poster advertisements. These contained statements that the respondent's "substitutes" were made according to the same formulas as patent medicines, and the bottle in which the respondent's tablets were sold had the words "Yeast tablets, a substitute for Yeast-Vite." Counsel handed a specimen bottle to their lordships, and said there was evidence that these tablets were sold to the purchaser as the result of an inquiry for Yeast-Vite. It was upon that that the passing-off action was founded and the injunction granted. There was also evidence that the article supplied by the respondent was not in fact a substitute for Yeast-Vite, some of the useful ingredients that Yeast-Vite contained being absent from the substitute. The real case was whether the labelling of the respondent's goods in the manner he had described was an infringement of the trade mark. All the judges in the courts below were of opinion that there was a good deal to be said for the view that the exclusive right given by Section 39 of the Act would be sufficient, and Mr. Justice Bennett said that he should at once decide in the plaintiff's favour but for a decision of the Court of Appeal by which he felt himself bound. That was what was known as the bullock wagon case—*Young v. Grierson*. Mr. Wilson submitted that the decision in that case was based upon the special facts of that particular case and did not enunciate broad principles. Alternatively he submitted that the *Young v. Grierson* case was wrongly decided. He contended that Section 39 conferred upon the registered owner of the mark a proprietary right in the mark, and that its unauthorised use by another was a trespass to property which of itself

constituted an infringement. Further, the use by the respondent in this case of the mark "Yeast-Vite" upon his goods was a use as a trade mark, since the words "Yeast-Vite" had no meaning apart from their trade mark meaning. There was judicial authority for the proposition that a trade competitor was not entitled to adopt a fancy or invented word as a captivating means of referring to his goods.

Judgment was reserved.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

EDGAR E. REEVES, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of druggists, chemical manufacturers and distributors, oil, colour, paint and varnish merchants, dealers in photographic appliances, etc. Solicitors: Philip Cohen, Slater & Tompkins, 47 Newhall Street, Birmingham.

FERTILAND MANUFACTURING COMPANY, LTD. (P.C.).—Capital £2,500. Objects: To acquire the business of manufacturers of and dealers in fertilizers, manures, chemicals, fungicides and insecticides, carried on by Andrew L. Knox Gilchrist and Bertram H. Ingham, at 45-47 York Street, Hulme, Manchester, as The Fertiland Manufacturing Company.

BECK, KOLLER & COMPANY (ENGLAND), LTD. (P.C.).—Capital £15,000. Objects: To adopt an agreement with Beck, Koller & Co., and Beck, Koller & Co., Inc., and to carry on the business of manufacturers, importers and exporters of synthetic resins and resinous substances of all descriptions, drugs, chemical and other preparations, etc. R.O.: 479 Edge Lane, Old Swan, Liverpool.

BONCILLA LABORATORIES, LTD. (P.C.).—Capital £3,500. Objects: To acquire the goodwill of the business of Boncilla Laboratories Inc. of Indianapolis, U.S.A., including the use of the word "Boncilla" and any trade marks used in connection therewith, and to carry on the business of manufacturers of and dealers in cosmetics, scents, perfumery, creams, soaps, powders, etc. Solicitors: McKenna & Co., 31/4 Basinghall Street, E.C.

THE SMITH & NEPHEW HOLDING COMPANY, LIMITED. (P.C.).—Capital £150,000. Objects: To acquire not less than 90 per cent. of the issued share capital of J. T. Smith & Nephew, Ltd., and Smith & Nephew (Manchester), Ltd., and to carry on the business of merchants, chemists, druggists, manufacturers of and dealers in surgical and sanitary appliances, dressings and instruments, chemical, photographic and scientific apparatus and materials, and artificial teeth. Solicitors: Ashurst, Morris, Crisp & Co., 17 Throgmorton Avenue, E.C.2.

MESSRS. SOUTHALL BROS. & BARCLAY, LTD., Birmingham.—Application was made before Mr. Justice Luxmoore in the Chancery Division on December 19 to sanction the reduction of their capital by cancellation of the 130,000 preference shares of the company by paying out to the preference shareholders their full capital with a bonus of 5s. per share which was provided for in the articles. Mr. Topham, K.C., who made the application, said it was agreed to at a meeting on March 27 last. The company had been very prosperous, and the capital to be paid back was not wanted. The company had a lot of undistributed profits. Its capital had been £286,000, divided into these 130,000 5 per cent. cumulative preference shares, all issued and fully paid, and 156,000 ordinary shares of £1 each. It was proposed to subdivide the 156,000 ordinary shares into 5s. shares, credited as fully paid, and to carry the capital back to £286,000 by the creation of 520,000 new ordinary shares of 5s. each to rank *pari passu* with the ordinary shares of 5s. each resulting from the subdivision of the 156,000.

An alteration would be required in the reference to £1 shares in the Articles. Mr. Thomas Barclay, the chairman, had made an affidavit stating that the company was accustomed to pay off its current debts at the end of each month. Mr. Topham said a fund would be provided to pay such matters as were outstanding. There was a very big surplus of reserve fund, £340,000, with cash in hand at the bank £161,000, and British and other investments £308,000. Mr. Justice Luxmoore stipulated that the applicants should give an undertaking to provide an adequate fund at the bankers for the creditors and confirmed the reduction of capital proposed and approved the minutes.

Bankruptcy Reports

Re Gwilym Owain Jones, Abersoch, Caernarvonshire, chemist and druggist. The Receiving Order in this matter was made on the debtor's own petition and the first meeting of creditors was held recently at the Commercial Hotel, St. Peter's Churchyard, The Cross, Chester. Gross liabilities, £2,219; assets, £380.

Re Alfred Bird Stathers, 19 South Street, Scarborough, chemist and druggist. The first meeting of the creditors herein was held recently at the Official Receiver's Offices, Scarborough, when the statement of affairs showed liabilities of £295 rs. 10d., with no assets. The position was attributed to "bad trade and lack of capital." The debtor said that on the death of his father in 1910 he took over the business carried on by him at Union Street, Filey. A year or two later he formed the business into a limited company, of which he was managing director. That company went into voluntary liquidation about six years ago, and at the same time the debtor made a private arrangement with his creditors, and with the assistance of a relative paid a composition of 5s. in the £. In September, 1928, debtor purchased the druggist's business at 19 South Street, Scarborough. He paid £200 down and was later sued by the vendor for the balance. From the beginning the debtor had difficulty in making his way, and had been helped from time to time by gifts and loans from relatives. The only book of account kept was a combined account book in which the receipts and payments were recorded from October, 1928, to March, 1932. The case, being a summary one, was left in the hands of the Official Receiver as trustee.

Business Changes

TAYLORS' DRUG CO., LTD., have purchased the business of Mr. H. Raw, chemist and druggist, Manchester Road, Bradford.

DR. HORST NEUMANN, Berlin, is joining the board of Schering, Ltd., manufacturing chemists, 188-192 High Holborn, London, W.C.1.

THE offices of the Institute of Ophthalmic Opticians and of "The Refractionist" have been removed from 329 High Holborn, W.C.1, to 7 Park Lane, London, W.1.

THE business of John Gosnell & Co., Ltd., soapmakers, 50-52 Union Street, London, S.E.1 (in voluntary liquidation), has been disposed of by the liquidator to a new company.

THE address of Geo. H. Penney & Co. has been changed to National Provincial Bank Buildings, 197 Aldersgate Street, London, E.C.1, as from December 18. Telephone: National 1336.

MR. FIRTH, chemist and druggist, is taking over the business of Mr. F. Medley, chemist and druggist, at 500 Barnsley Road, Sheffield, as from January 1. Mr. Medley is retaining his business at 5 Page Hall Road.

THE address of The London Rubber Co. has been changed from Elarco House, 183 Aldersgate Street, E.C.1, to Elarco House, 221 Old Street, London, E.C.1, as from December 27. Telephones: Clerkenwell 3888-3889.

General Medical Council

(Concluded from the C. & D., December 9, p. 695)

DISCIPLINARY CASES

The first two cases relating to medical practitioners had reference to convictions for motoring offences. The respondents were Mr. Aiden Joseph O'Sullivan, L.A.H.Dub., 59 Whetstone Lane, Birkenhead, and Mr. John Alexander Tohnie, 295 Anlaby Road, Hull, who holds the Scottish triple qualification. Both cases were originally before the Council a year ago; both were now discharged on the production of satisfactory testimony.

The other case taken on the first day of the session was that of Mr. Frederick Richard Lanfear Miller, M.R.C.S., L.R.C.P., 53 Pembridge Villas, W.11, who had been summoned in consequence of convictions under the Dangerous Drugs Acts. The facts in the notice of inquiry were found to be proved, and the respondent was instructed to find suitable testimony during the next year.

The second day of the session was chiefly occupied with the hearing of three cases. The first two respondents were Mr. Gerald Douglas Newton, 25 Walker Terrace, Gateshead-on-Tyne, who holds the Scottish triple qualification, and Mr. James Scott Webster, M.B., Ch.B., 31 Bank Road, Bootle, who had been summoned in consequence of convictions for offences against the Dangerous Drugs Acts. Dr. Newton was discharged with a caution, and Dr. Webster was ordered to report himself after twelve months. It was ordered that the name of the third respondent, Mr. David West, M.B., Ch.B., registered as of 1 Raynham Road, W.6, convicted of misconduct with a married woman who was a patient of his, be erased from the Register.

The third day was occupied in the hearing of two cases. The respondents were Dr. Charles Frederick Searle, registered as of Nanyuki, British East Africa (charged with elopement with a patient), and Mr. Philip Henry, 6 Cavendish Place, W.1, who held the Scottish triple qualification (charged with advertising and canvassing). It was ordered that the names of both be erased from the Register.

Most of the fourth day was taken up with the case of Mr. Steven Tait Pottinger, M.B., Ch.B., "Lyndhurst," Willenhall, Staffs, charged with canvassing. The charges were found to be proved, and the case was adjourned for a year with the usual stipulation as to conduct.

On the last day of the session Mr. Harry Rubinstein, 31 Victoria Street, S. C. Road, Dublin, who held Irish qualifications, was before the Council on charges of canvassing. It was directed that his name be erased from the Register. Another respondent, Mr. Bailey Glenrice Dias, Cumberland Villa, Highgate Road, N.W.5, who holds Indian and Scottish qualifications, was charged with attempting to obtain commissions on optical supplies. He was given till next November to provide satisfactory assurances.

PHARMACOPŒIA COMMITTEE

The report of the Pharmacopœia Committee stated that the Pharmacopœia Commission has under consideration a proposal for the preparation of an Addendum to the British Pharmacopœia, 1932, which shall include any changes in the standards of the British Pharmacopœia, 1932, which may, after due consideration, be thought necessary, together with monographs on such new drugs as may be considered suitable for official description. In this connection the co-operation of the Committees established in the Dominions for the purpose of dealing with pharmacopœial revision has been invited. The Commission is also engaged in reviewing the field of newer remedies with the object of selecting those which should be included in an Addendum. The Commission continue to be in regular correspondence with the Committee of Revision of the United States Pharmacopœia.

REPRINTS of a Conference paper entitled "The Preparation of Alkaloids by Tannins and the Use of Antipyrin in the Detection of Tannins," by Messrs Alan H. Ware and Victor Smith, have been issued by the Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1.

Pharmaceutical Society of Ireland

Council Meeting

THE December monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on December 12, Mr. P. J. Fielding (president) in the chair. Other members present were Messrs. D. Warwick, F. J. Fitzpatrick, D. W. P. Boyd, Sir T. Robinson, Miss F. M. Flood, Dr. J. A. Mitchell, Messrs. C. Cremen, J. T. Dwyer, P. Brooke Kelly, M. J. Parkes, J. Gleeson, M. J. Kieran, B. P. Hickey, J. Duggan, W. J. Knight, J. A. O'Rourke, M. J. Parkes, and T. J. Smith.

DEATHS

At the outset of the proceedings DR. MITCHELL moved a vote of sympathy with the relatives of the late Mr. J. A. Doyle, M.P.S.I., who was at one time a member of the Council. He also wished to include in the vote the relatives of the late Sir William Whitla. Sir William was formerly an eminent member of the Council and an examiner to the Society.

MR. WARWICK seconded both votes of sympathy, which were passed in silence, all members standing.

MR. Bernard Murphy, examiner in pharmacy, wrote thanking the Council for the vote of sympathy with him passed on the death of his father.

CORRESPONDENCE

A second letter was read from Mr. Murphy stating that he was in receipt of the terms of the resolution passed by the Council at its last meeting with regard to the procedure to be adopted at pharmacy examinations, and instructions with regard to the marking of papers, and adding that he would have these instructions carried out at the next and succeeding examinations.

MR. J. Gaynor, law adviser, wrote stating that he had a conference with Mr. R. J. Kidney, auditor, regarding the income-tax assessment, and expressing the view that they should have counsel at the hearing of their appeal before the Special Commissioners.

THE REGISTRAR (Mr. J. J. Kerr) stated that since that letter was written they got a sudden notice that the Society's appeal would be heard at Dublin Castle; as the matter was urgent he consulted with the treasurer, and it was decided to instruct Mr. Gaynor to employ Mr. J. Costello, K.C., who was an expert in this matter, to appear before the Commissioners. Mr. Costello appeared before the Commissioners at the hearing, and the Commissioners decided to give a special day to the case in the New Year.

The following certificate from the Taxing Master, Mr. James Denning, was forwarded by the law adviser for the Council's information in connection with the taxing of Dr. Vincent Keirans's costs:—"I certify that I have been attended by Vincent D. Keirans the solicitor on his own behalf, and by John J. Gaynor the solicitor named in the Requisition to tax, and that in pursuance of the Requisition of the said Pharmaceutical Society of Ireland dated the 10th day of October 1933 I have taxed the miscellaneous costs incurred by Vincent D. Keirans on behalf of the above Society in connection with the various matters set forth in the Bill of Costs furnished herein including special attendances in Dublin, Sligo, and Castleblayney and travelling expenses in relation thereto, also cases sent to counsel to advise and fees paid him thereon to the sum of One Hundred and ninety three pounds eight shillings." The amount claimed was £301 7s. 9d.

MR. Gaynor reported on the results of prosecutions in the cases of Mrs. M. H. Dillon Barry and William Creaven.

CHANGES OF NAME

Mrs. G. M. Ryan, M.P.S.I. (née O'Dea), and Mrs. M. J. McLoughlin, M.P.S.I. (née McEver), wrote submitting marriage certificates and desiring change of name in the Register. The applications were granted.

PRELIMINARY REGISTRATION

The following submitted Matriculation certificates and were granted preliminary registration:—Misses M. L. Northridge, C. R. Sullivan, M. Burke, M. M. R. McGrath, Messrs. D. F. Gannon, M. A. O'Brien, T. Mockler, B. G. Rafferty, and M. J. O'Toole.

In connection with these applications THE REGISTRAR mentioned that 142 persons applied for preliminary registration last year, and 70 this year, which was a reduction of 50 per cent.

CHANGES OF ADDRESS

The following changes of address were notified:—Miss E. Carey, Ph.C., from 34 Cadogan Road, Fairview, to The Modern Pharmacy, 91 Patrick Street, Cork; Messrs. S. P. Ahearn, M.P.S.I., from 41 Hatton's Lane, Wavertree, to Waterside, Dudlow Gardens, Liverpool, 18; P. J. Farrell, M.P.S.I., from 23A Main Street, Donnybrook, to 396 Clontarf Road, Dublin; M. P. M'Goldrick, M.P.S.I., from Central Medical Hall, Ballinrobe, co. Mayo, to 10 William Street, Galway; Michael Byrne, Ph.C., Doon East, Ballybunion, co. Kerry, to 12 James' Street, Drogheda; Maurice Curran, R.D., from 18 Hume Street, to 54 Lower Kevin Street, Dublin; Thomas J. Keating, R.D., from 82 West Street, to 3 Dublin Road, Drogheda.

CEREALS ACT

Arising out of the Law Committee's report THE REGISTRAR mentioned that it was decided to ask the President of the Executive Council to receive a deputation in connection with the provisions in the Cereals Act affecting the manufacture of veterinary medicines. Subsequently a deputation consisting of the vice-president, Mr. O'Rourke and himself was received by the permanent officials of the Department of Agriculture on the matter, the result of which Mr. O'Rourke would report.

MR. O'ROURKE said that the deputation was very favourably received by Mr. Walsh and Mr. Adams of the Department, who were anxious to meet the difficulties of the retail chemists who made their own veterinary preparations. The real aim of the provision in the Act was to prevent the import and sale to farmers in the country of valueless preparations. If detailed cases of hardship suffered by Irish chemists are prepared and submitted to them, the present provisions may be altered. It was pointed out to the deputation that no charge would be made for the registration or licensing of chemists manufacturing veterinary medicines. The officials gave them a sympathetic hearing, and appeared anxious to help the retail chemists in business.

MR. FITZPATRICK: Were you aware that Mr. James McCormack of Wexford, a former member of this Council, did good work in this direction before the deputation called?

MR. O'ROURKE: Yes. He prepared the way.

MR. KIERAN mentioned that he put the matter before his local T.D., and he promised to do what he could.

THE PRESIDENT: Thank your, Mr. Kieran, for your action.

HOUSING SUBCOMMITTEE

The following recommendation from the Housing Subcommittee, signed by the vice-president and Mr. D. W. P. Boyd, came before the Council for consideration:—

"Recommended That the Council should consider the advisability of (1) co-operating with the National University for the purpose of chemistry lectures or (2) building a Chemical Laboratory. Also that they should decide whether it would be advisable to consider taking new premises or to remain in the present premises. In view of the fact that only two members were present, the Subcommittee recommend the nomination of some additional members."

SIR T. ROBINSON said he thought that this question of premises was settled. He was looking at a big double-

fronted house the other day in Kildare Street which would make a suitable place.

MR. FITZPATRICK pointed out that the Society had already spent £70 or £80 in legal costs in connection with the new lease, and £250 to buy out the interest of another party. In addition they had signed an agreement to spend a certain sum of money on the present premises. How then, he asked, could they move to another place?

SIR T. ROBINSON said he was always in favour of changing because the locality in which they were at present located was going down. The dry rot was creeping up to their end of the street.

MR. BROOKE KELLY: We have spent a good deal of money consolidating our position in this house, and we can get all the accommodation here we want. A new house may require a great deal more reconstruction than is required here.

SIR T. ROBINSON asked why the sum of £6,000 was set aside in their accounts for premises.

MR. FITZPATRICK said that in 1929 they had only between £3,000 and £4,000, and Mr. Meeke had pointed out that it was not sufficient to buy a house. They had been economising, and had not carried out repairs needed to their present premises.

MR. PARKES: I propose that the Committee be given powers to look around and see what they can do.

MR. BROOKE KELLY: When the matter was discussed before people were given the same instruction.

MR. KIERAN: The Northern Society has given us a headline. It would be better to get decent premises in a good locality than spend money on these premises.

MR. O'ROURKE supported Mr. Parkes's suggestion that the Committee be asked to look around and report to the Council. He moved that Mr. Parkes be put on the Subcommittee.

MR. FITZPATRICK: I second that.

DR. MITCHELL proposed, and MR. BOYD seconded, that Sir T. Robinson be placed on the Subcommittee.

SIR T. ROBINSON declined to act, stating that he had not the time. He would, however, give all the help he could in the matter.

Mr. Parkes was made a member of the Subcommittee, the next meeting of which was fixed for December 29.

THE SOCIETY'S CALENDAR

MR. O'ROURKE moved the following motion standing in his name:—"That the registrar be directed (a) to insert in the next Calendar the new Dangerous Drugs Act and regulations made thereunder; (b) to delete from the Appendix the list of pharmaceutical chemists stated to hold public appointments; (c) to delete from the Appendix the list of pharmaceutical chemists and pharmaceutical assistants described as having served in His Majesty's Army during the war 1914-1919." Mr. O'ROURKE said that his idea in bringing forward this motion was to bring the Calendar as up to date as possible.

THE REGISTRAR stated that the Calendar for next year had "gone to bed" at the printers', and any changes proposed now could not apply to it.

MR. O'ROURKE said his idea was to have the Calendar up to date without any redundancies. Regarding his second proposal, as far as he knew the list given of chemists holding public appointments was not correct, and there was no means of having it correct. The third item belonged to past history and had no bearing to-day.

MR. BROOKE KELLY suggested that the motion should be worded giving the pages of the matter proposed to be deleted.

MR. O'ROURKE said he was not particularly interested in the form of the wording so long as the object he had in mind was achieved.

THE PRESIDENT: Personally, I do not agree with any of this.

MR. BROOKE KELLY proposed, and THE PRESIDENT seconded, the following amendment to Mr. O'ROURKE's motion, which was carried on a show of hands. Mr. O'ROURKE dissenting:—"That the Calendar be revised and a subcommittee be appointed for that purpose to act in conjunction with the registrar as follows: Dr. Mitchell, Mr. O'ROURKE and the vice-president."

EXAMINER IN PHARMACY ELECTED

The Council proceeded to the election of an examiner in pharmacy for the Licence examination. The following candidates applied:—Messrs. M. J. Mulreany, M.P.S.I., gold medallist, Sligo; M. V. Sargent, M.P.S.I., A.R.C.Sc., A.I.C., Fairchild prizeman; P. J. Killacky, M.P.S.I.; Dr. A. T. McKay; and J. J. Connolly, L.P.S.I., A.A.H.I.

Dr. McKay was declared elected, and on the motion of THE PRESIDENT, seconded by MR. WARWICK, was unanimously appointed examiner for the year ending December 1, 1934.

DANGEROUS DRUGS REGULATIONS

DR. MITCHELL said it had been mentioned to him by a medical authority that the Dangerous Drugs Regulations were not being as well observed as they might. He was under the impression that the provisions were well kept, but he mentioned the matter for the Council's information.

THE PRESIDENT thanked Dr. Mitchell for mentioning the matter.

ELECTIONS AND NOMINATIONS

The following were elected members of the Society:—Miss M. Morris, 23A Main Street, Donnybrook; Mr. R. J. McCullagh, 14 Rockhill, Blackrock; Mr. J. J. Murray, 25 Mitchell Street, Nenagh; Mr. J. Moran, 3 Carysfort Avenue, Blackrock; Mr. M. Fortune, Adamstown, co. Wexford; Mr. T. Hunt, Upper Cork Street, Mitchelstown, co. Cork; Mr. H. B. O'Donoghue, Virginia, co. Cavan; Mr. T. J. Carroll, The Medical Hall, Kilmallock; Mr. B. R. Smith, Failte, Iona Road, Glasnevin; Dr. C. F. Kirwan, 58B Hamilton Terrace, St. John's Wood, London, N.W.1; Mr. T. Stewart, 51 Upper William Street, Limerick; Mr. J. P. Crowe, 16 South Richmond Street, Dublin.

The following were nominated for membership:—Miss M. Galvin, The Square, Drumcollogher, co. Limerick; Messrs. P. J. Farrell, 396 Clontarf Road, Dublin; P. J. Fox, Tramore; T. A. Healy, Medical Hall, Ballaghaderreen; W. T. Turner, 17 Main Street, Carrick-on-Suir; H. Weir, 27 Pearse Street, Mullingar.

National Pharmaceutical Union

Branch Meetings

Chesterfield.—The annual meeting of the Chesterfield and District Branch was held recently. After adoption of the annual report and accounts, the following officers were elected:—*President*, Mr. S. C. Greaves; *Treasurer*, Mr. T. H. Bradley; *Secretary*, Mr. F. Elliott. A lively and helpful discussion took place on the N.P.U. publicity scheme. A sum of £2 2s. was voted to the Grassmoor Relief Fund.

Ipswich.—The annual meeting of the Ipswich and Suffolk Branch was held on December 4. Mr. S. J. Stearn was re-elected *Chairman*, and Mr. L. Piper, The Wolsey Pharmacy, St. Nicholas Street, Ipswich, *Treasurer and Secretary*. Mrs. Cook and Messrs. Coutts and Wiggin were elected to form the *Committee*. The Branch decided to renew its affiliation to the Early Closing Association.

Leeds.—A general meeting of the Leeds Branch was held on December 12. Mr. N. H. Burns in the chair. The speaker was Mr. C. W. Hobson (Sheffield) and the subject *Pharmaceutical Publicity*. Mr. Hobson stated that while the need for publicity was generally recognised, too many men were sitting on the fence. He outlined a proposed scheme for advertising. In reply to questions, Mr. Hobson said it was impossible to publish the draft of the advertisements and the sign on account of copyright problems. It was suggested that travellers could assist by talking pharmaceutical publicity. Several members expressed the opinion that the immediate distribution of the signs would induce more people to join. It was suggested that the wholesalers and manufacturers be asked to support the scheme. A vote of thanks to Mr. Hobson, proposed by Mr. Swaits, was carried with enthusiasm.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council was held on December 15 in the Society's headquarters, 73 University Street, Belfast. Mr. William Martin (vice-president) in the chair. There were present also Sir Thomas McMullan, Messrs. R. I. Edwards, J. E. Connor, Fred Storey, W. S. Taylor, S. S. Badger, Samuel Gibson, H. F. Moore, G. W. P. McCann, S. H. Forrest, W. A. Tate, Dr. Acheson, and Professor Small. Mr. D. L. Kirkpatrick (secretary) was in attendance.

CORRESPONDENCE

The secretary reported the receipt of greetings from the Ontario College of Pharmacy.

The Pharmaceutical Society of Great Britain forwarded the reports of four subcommittees of the Codex Revision Committee.

Thanks of the Society were directed to be tendered to the following donors:—Miss Forrest, Crumlin Road, the first lady gold medallist of the Society, for a leech jar; Mr. Samuel Hogg, for two volumes of "The Pharmaceutical Journal"; and Johnson & Johnson (Great Britain), Ltd., and Mr. Joseph A. Walsh, M.P.S.N.I., for a first-aid case.

RECIPROCITY REGISTRATION

Registration was granted to Miss Nellie Elizabeth Farmer, Woodend, Gatehouse-of-Fleet, Kirkcubright,



Photo]

[W. & G. Baird, Ltd.

THE ASSEMBLY ROOM, PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

the necessary declaration having been completed. Miss Farmer has purchased the pharmacy of Mr. T. M. Wright, Aughnacloy, co. Tyrone, who has moved to the Medical Hall, Irvinestown, co. Fermanagh.

DEATHS

MR. STOREY referred to the death of Sir William Whitla, L.P.S.I., which had taken place that week. Sir William, he said, took a deep interest in pharmacy in Ireland and England. When the Government of Northern Ireland decided to pass the Act setting up the Society, Sir William made several suggestions. His removal was a distinct loss to pharmacy, and the representative attendance at the funeral showed the high esteem in which he was held in the community. He (Mr. Storey) moved that a letter of sympathy be sent to the deceased's representatives.

MR. S. GIBSON, in seconding, said Sir William was one of the examiners for the registration of druggists. The druggists were always pleased with the way he conducted the examinations and the care he bestowed on them.

THE VICE-PRESIDENT said Sir William had been his examiner at the R.D. examination.

The resolution was passed by a standing vote.

MR. STOREY also referred to the death of Mr. John Humphrey, of the British Society. He said that those

of them who met Mr. Humphrey were struck by his great mind. They remembered the admirable address he gave when he presided at the British Pharmaceutical Conference. He had been a good friend to their Society, and it was with real regret they heard of his death. He (Mr. Storey) was present at a meeting of the South-West Association in Balham, when the news of Mr. Humphrey's death was received, and it came as a great shock to the members. He moved that a letter of sympathy be sent to Mrs. Humphrey.

MR. S. GIBSON, in seconding, said Mr. Humphrey had a striking personality. He took an interest in the affairs of their Northern Society.

The resolution was passed by a standing vote.

MR. CONNOR referred to the bereavement sustained by the Minister of Home Affairs, Sir Dawson Bates, in the tragic death of his cousin, Theodore Bates. Mr. Bates and a friend, he said, were killed in a motor accident. Mr. Connor moved that a resolution of sympathy be sent to Sir Dawson.

MR. BADGER seconded the motion, and the secretary was asked to request Sir Dawson to convey the sympathy of the Council to County Court Judge Bates, the father of the deceased.

A QUESTION ABOUT REGISTERS

THE VICE-PRESIDENT said that at a meeting of the Committee of the Ulster Retail Drug Trade Association it had been asked if the Society kept a register of doctors and dentists.

MR. GIBSON: What power have we to do that?

THE SECRETARY: None. If they would read the Regulations under the Dangerous Drugs Acts they would have no trouble whatever.

DR. ACHESON said there was a Medical Directory in the Institute in College Square North.

In reply to Mr. Tate, THE SECRETARY said that if a chemist in Belfast did not know a doctor outside Belfast who gave a prescription he could not compound it.

MR. TAYLOR and MR. CONNOR referred to the case of country chemists who got prescriptions from specialists in Belfast.

THE SECRETARY said they would know the customer.

MR. STOREY said the Society could not undertake to keep a copy of the Medical Register up to date from week to week.

GIFT TO THE SOCIETY

MR. T. Edward Lescher (Evans Sons Lescher & Webb, Ltd.) wrote intimating his intention of presenting a number of books to the Society's library. Thanks were ordered to be sent to him for his gift.

APPLICATION FOR A GRANT

Magherafelt Regional Education Committee wrote asking for a grant for the Technical School Committee in aid of the special classes for pharmaceutical apprentices, of whom there were seven. Last year they purchased physics apparatus for £20, and this season they require chemistry apparatus costing £15 and a cupboard at approximately £5.

MR. BADGER said the class was not paying. He thought they should help small towns.

MR. TAYLOR gave notice of motion that £15 be granted. He agreed with Mr. Badger that the small towns should be assisted.

MR. CONNOR said that in Newry the difficulty was regarding teachers. He thought that a teacher should be appointed to go round and teach the subjects required. They had to pay to bring a man to teach botany in Newry. If something was not done for the country schools there was going to be difficulty. If they recognised Magherafelt, other schools would send in similar claims.

EXAMINATION RESULTS

The results of the December examinations (*C. & D.*, December 16, p. 719) were announced. In reply to Dr. Acheson, THE SECRETARY said that in Part II nine passed, and in Part I eighteen. The reports of the examiners were adopted.

MR. MOORE raised several matters of procedure in connection with the examinations, and these were referred to the Education Committee.

LICENCE FEES

THE SECRETARY intimated that licence fees were now due, and should be remitted to the Ministry of Home Affairs on or before January 1, 1934.

MEMBERS ELECTED

The following nominated candidates were elected members of the Society:—Robert Hugh Chambers Harvey, Cullybackey, co. Antrim; Thos. Alfred McLean Whitcroft, Killeter, Strabane; Miss Elizabeth Wellwood, 89 Ormeau Road, Belfast; James Patrick Miller, 22 Crumlin Road, Belfast; Herbert Washington Gamble, 88 Rushfield Avenue, Belfast; William Edward Wilson, c/o Majestic Hotel, Cheltenham.

THE JANUARY COUNCIL MEETING

MR. G. McCANN proposed that the January Council meeting be held in Derry city. He said it would be a compliment to the president, and also a compliment to Londonderry and district. He felt it would bring them closer to their members and licentiates in the country, and develop a keener interest in the Society.

MR. TAYLOR, in seconding, said the idea was a good one, and he strongly supported it.

MR. STOREY, in supporting, said they were perfectly in order in holding the meeting outside Belfast. It would give their members and licentiates in Derry and Tyrone an opportunity of personally bringing before the Council any matters of interest or importance they were concerned about.

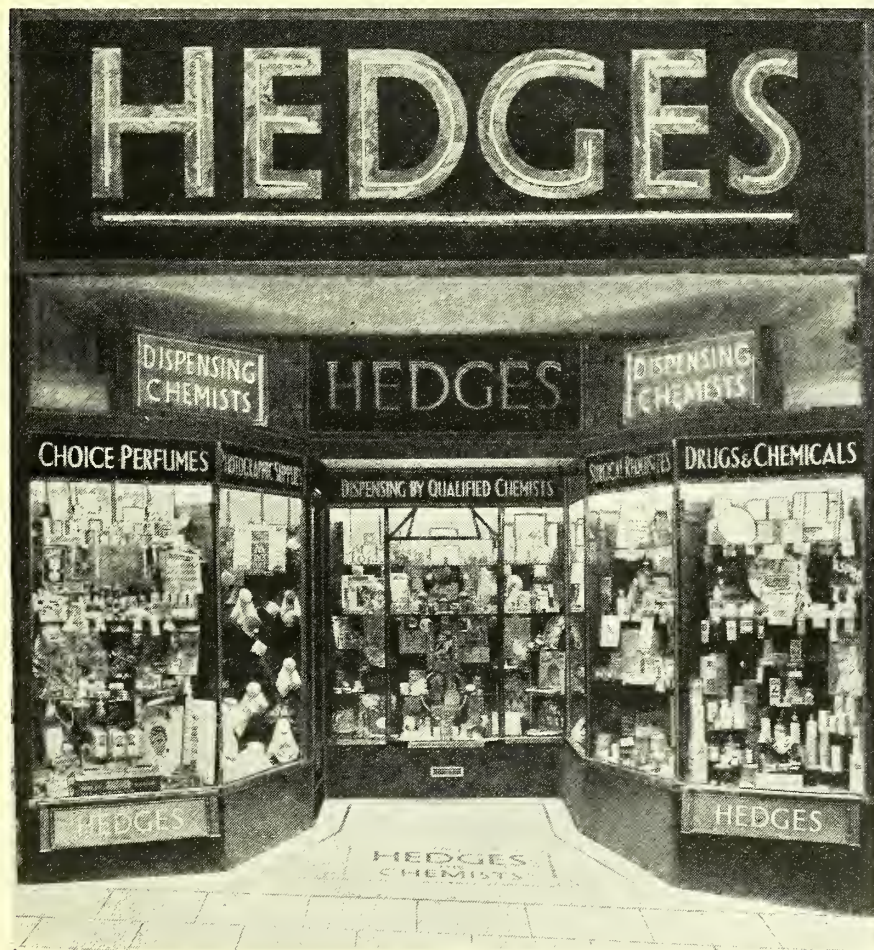
MR. BADGER, as a representative of co. Derry, was very pleased, and said it would do the Society good. MR. FORREST, MR. MOORE, PROFESSOR SMALL and DR. ACHESON spoke in support. The proposal was passed unanimously.

THE death is announced of Mr. Alexander Macmorran, K.C., at the age of eighty-one. In the course of his extensive practice at the Bar Mr. Macmorran led for the defence in the test case of *Jenkin v. Pharmaceutical Society of Great Britain*, tried in 1920.

THE PRINT-USER'S YEAR BOOK.—Mr. Charles C. Knights, 26 Bedford Row, London, W.C.1, has hit on the clever idea of publishing, under the title "The Print-user's Year Book," a volume (which it is proposed to make the first of an annual series) devoted to specimens of fine printing and illustration, with comments written by himself. The book is a handsome quarto comprising 212 pages and numerous insets, chiefly in colour, published at 10s. Everyone interested in the effective presentation of a commercial announcement will find it stimulating as well as informative; it is obvious that the collection of so many examples of good workmanship in one volume cannot fail to suggest fresh ideas to any alert purchaser. Mr. Knights is well known to *C. & D.* readers as the author of some excellent books on layout and cognate subjects, and his new book is, in brief, extremely good value.

Single Unit Lighting

The accompanying illustration shows the effect of a new system of lighting installed by Craftinwood, Ltd., shopfitters, Ashted Row, Birmingham. Each of the windows is illuminated by means of a single high-powered lamp, enclosed in a specially designed mirror amplifier, which, in this case, also illuminates the transome lettering. The effect of this system is a brilliantly lit window. While the initial cost of the installation is a little more than that of the usual type of window reflector, there is claimed a considerable saving in current consumption as the number of lighting points and lamps is cut down to the minimum. A single unit will illuminate a larger window than any of those illustrated.



An Important Amalgamation

THE historic house of Sangers, Ltd., has been prominently in the news during recent months. It will be remembered that in our issue of October 7 we reported a meeting of the shareholders at which a resolution to increase the capital of the company to £1,040,000 was unanimously approved; at the same meeting it was announced by Mr. F. J. Smith (managing director) that the shares of May, Roberts & Co., Ltd., were being purchased and that the goodwill of Francis Newbery & Sons, Ltd., had been acquired. When it is remembered that last January Messrs. May, Roberts & Co. took over the distributing business of William Edwards & Sons, it will be realised that the amalgamation of these four old-established London businesses under one board of directors constitutes a very important step in the evolution of the distributive trade in proprietaries, druggists' sundries and packed goods.

Historical Outline

With one exception, the four constituent houses date back to the eighteenth century. Messrs. Sangers have long had among their archives an interesting announcement in the form of a pamphlet or handbill showing their frontage at No. 150 Oxford Street, where they succeeded Bacon & Co., established prior to 1780. (This elevation was reproduced in our Special Issue of January 31, 1914.) The actual date of Messrs. Bacon's commencement has never been ascertained; but there were chemists in Oxford Street in 1773, twenty-five years before John Bell opened his famous establishment, and

it is not improbable that Bacon's "Genuine Patent Medicine Warehouse" was opened about the same time. John Sanger joined the business in 1810, and was in due course succeeded by his son, another John Sanger, whose sons Charles and William Albert were admitted to partnership in 1862. Mr. W. A. Sanger was a Pereira medallist of the Pharmaceutical Society. In 1874 additional premises were taken in Oxford Street, and in 1892 the headquarters was transferred to Winsley Street, near Oxford Circus, a factory being then in operation at Shepherd's Bush. Most of the departments of the business were removed in 1906 to Euston Road, where, as we shall notice in a later paragraph, extensive additions and modifications have since been made. The present public company (as mentioned in our Special Issue of June 24 last) was formed in 1928.

May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C.1, were founded in 1874 by the acquisition by Mr. Samuel Roberts of a business in Cowcross Street, Smithfield. Premises were taken at 9 Clerkenwell Road in 1883; ten years later No. 11 was added, and successive increases of the same kind took place in 1902-08; as recently as two years ago the interior was remodelled. Branches have been established in Dublin, Plymouth and Liverpool, and will, with the London premises, be carried on as formerly under the same board of directors.

The business of William Edwards & Sons was established in the closing years of the eighteenth century, at 74 High Street, Borough, S.E.1, by Benjamin Shaw, who in or about 1805 took Mr. Evan Edwards in partnership, the firm removing to St. Paul's Churchyard. In 1814



THE BOARD OF DIRECTORS OF SANGERS, LTD.

(Left to right, starting nearest the camera): MR. PERCY STANLEY SMITH, MR. ROBERT PECK, MR. JOHN SANGER, MR. ARTHUR HENRY BAKER (Secretary—standing), MR. HENRY SANGER, MR. ERNEST SANGER (Chairman), MR. FREDK. JOHN SMITH (Managing Director), MR. ASHLEY TUCKER WEBB, MR. ERNEST ATHERTON SMITH, MR. PERCY JOHN LUSHINGTON, MR. LESLIE DAVID SMITH

Mr. Edwards became the sole proprietor; on his death he was succeeded by his son William, who remained at the head of affairs till 1900. Mr. William Edwards the second, named after his father, then took control; he was eventually joined by two sons as partners, and the business migrated to Nile Street, N.1. He died in 1931.

John Newbery, the founder of Francis Newbery & Sons, Ltd., was born at Reading in 1713, and commenced business in the town as a bookseller and patent-medicine dealer. When he came to London in 1745 he set up as a publisher and medicine vendor; his books for children and his association with Johnson, Goldsmith and Dr. Robert James are well known. James's Fever Powder was, no doubt, the best seller among his proprietaries, but Hooper's Female Pills were also cleverly advertised and must have provided a valuable agency. Newbery died in 1767; he was followed by his son Francis, on whose death in 1818 the succession passed to the next generation and the firm took its present name. After various removals the proprietors settled in Charterhouse Square in 1809; the firm was converted into a limited company in 1904. Branches have been established in Cardiff and Liverpool.

The Latest Developments

Mention of the acquisition of Messrs. Newbery's business by Sangers, Ltd., reminds us that, for reasons which will appeal to the trade—and, indeed, to everyone who values continuity in commercial affairs—the name of this historic house is being retained. The lease of the Charterhouse Square premises having almost expired, orders addressed to Francis Newbery & Sons are received at 7-13 Clerkenwell Road, E.C.1, and at 258 Euston Road, N.W.1, at customers' option. An interesting feature of the absorption is that it has been found possible to engage a considerable majority of the old staff from Charterhouse Square, and that the few who were less eligible to commence a fresh period have been given generous assistance according to their length of service.

The directors of the company, the majority of whom are in daily attendance, are Mr. Ernest Sanger, J.P., L.C.C. (chairman), Mr. Henry Sanger, Mr. Fredk. J. Smith (managing director), Mr. E. A. Smith, Mr. John G.

Sanger, Mr. P. J. Lushington, Mr. P. Stanley Smith, Mr. Leslie D. Smith, Mr. A. T. Webb and Mr. R. Peck. Next in length to the family association of Messrs. Ernest, Henry and John G. Sanger with the business comes that of Mr. F. J. Smith and his brothers, who can claim a record, through their father, extending over seventy years. Mr. Lushington is the son-in-law of Mr. Henry Sanger, and has been connected with the business since 1922. Mr. A. T. Webb and Mr. Peck are well known by their long association with the board of May, Roberts & Co., Ltd. It is evident that this is a remarkable team of experts in the particular problems of a specialised business.

In our Special Issue of July 25, 1914, we gave an illustrated description of Messrs. Sangers' headquarters as they then appeared. All that was written then regarding the service available is even truer to-day. Whole blocks of buildings have been added, while preserving the arrangement by which goods enter by one side of the premises and leave by another; departments have expanded; new machinery has been installed; town deliveries have increased in frequency and range; and work in all its aspects has been speeded up. Anyone who has the privilege of being taken behind the scenes will find a very busy series of departments working "all out," with house telephones, shoots for the quick assembling of goods, continuous travelling bands for dealing with containers, and all the other adjuncts to quick service. They will also find a floor set apart for the manufacture of certain proprietaries. Messrs. Sangers are, and have always been, a chemists' house, with an intimate knowledge of the special conditions of the chemists' business. Since 1870 the business has been exclusively wholesale, and has had no interest in any way with retail trade. A glance at the map shows that 258 Euston Road stands on the line of the Inner Circle Railway between two main-line termini (Euston and Marylebone), close to Warren Street (Tube) Station and the terminus of a section of the tramway system serving North and North-West London and adjoining important 'bus routes—a position that is central without being hemmed in by difficult approaches. With the added efficiency of working resulting from centralised control, Messrs. Sangers will undoubtedly enter upon a new period of prosperity.

Prescription Problem

THE prescription reproduced in facsimile in our issue of November 18 (p. 623) brought a smaller number of transcriptions than usual, although it was evident that only one line presented any considerable difficulty. The correct transcription, omitting the "R," is as follows:—

Tr[.] Chlofm[.] et Morph[.] '85 3ij
Pot[.] Cit. 3ij
Inf[.] Buchu ad 3viiij
[Cap.] 3ss. t[.] d[.] s[.] p[.] c.

The principal feature of this prescription is that it is an example of a well-formed and legible handwriting suddenly becoming obscure. We were interested to learn that an experienced pharmacist had to telephone to the prescriber for an explanation of the first line, and that at a chemists' meeting at which several medical men were present no one succeeded in deciphering this line. The majority of our correspondents have succeeded in reading ingredients, quantities and directions correctly. A few have failed in the first line, with the result that we get as shots:—

Fulv. Aerophorus Lax '85	Tr Caulophylli (Rhiz)
Sp Cajuput Ang B.P.	Tr Colchici sem
Tab. Cistopurin Pur 1 Gram	Tr Cubeb fruct nigri '85

The sender of the tincture of colchicum suggestion had made the quantity 3j 3ij; and one other error noticed is "Tr Chlofor et Morph Co." Two competitors gave the second ingredient wrongly, choosing "Bis, Carb." The quantity of potassium citrate was given as 3iv. on seven postcards. Another type of mistake was the writing of "p.r.n." or "ex aq."

Of those who have read ingredients, quantities and directions correctly, the following have made the most exact transcriptions:—

Mr. H. T. A. Gretton, Arnold, Nottingham.
Mr. A. W. Humphreys, 67 Hampton Road, Birchfields, Birmingham
Miss A. J. Pye, 28 Kennerley Road, Davenport, Stockport
Mr. J. Richards, 55 South Street, Isleworth, to each of whom a prize of 7s. 6d. is awarded. Sufficient merit for a smaller award marks the cards of
Mr. Bower, 334 Grove Green Road, Leytonstone
Mr. A. W. Cowley, 29 Prospect Hill, Douglas
Mr. W. E. Crichton, c/o 8 Caledonian Road, London, N.1
Mr. G. B. Daniel, 272 High Road, Wood Green, London, N.22
Miss K. East, 5 Riverside, Springfield, Chelmsford
Mr. Garbut, 307 Railton Road, Herne Hill, London, S.E.24
Mr. R. S. Ive, 115 Gloucester Road, London, S.W.7
Mr. E. H. James, Lampeter, Cardiganshire
Mr. C. C. Radcliffe, 24 Finch Road, Douglas
Mr. Norman C. Shand, c/o 124 High Street, Methil
Mr. S. J. Starkey, c/o Great Heath Pharmacy, Coventry
Mr. C. W. Stote, 69 and 71 High Street, Slough
Mr. R. Taylor, 22 Park Road, Polsloe Park, Exeter
Mr. C. C. Williams, 2 Crompton Street, Warwick,
and to each in this group a prize of 2s. 6d. will be forwarded.

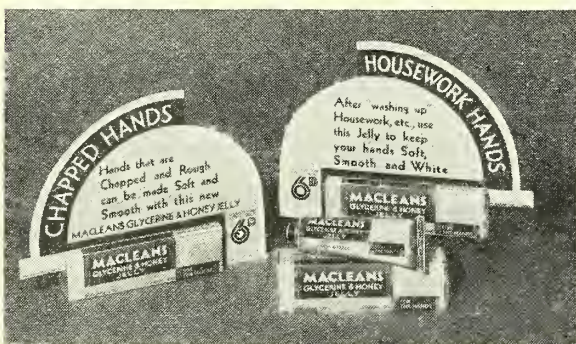
Trade Notes

CHRISTMAS GREETINGS.—The following wholesale houses are wishing their customers and friends the season's greetings through advertisements in this issue:—

Allen & Hanburys, Ltd.
Arthur Berton, Ltd.
T. F. Bristow & Co., Ltd.
W. B. Cartwright, Ltd.
The Dubarry Co., Ltd.
National Drug Industries, Ltd.
Potter & Clarke, Ltd.
Walden, Walden & Co.
Wright, Layman & Umney (1932), Ltd.

BACTERIOLOGY.—A course in bacteriology arranged for pharmacists commences on June 22. Particulars may be obtained from the Secretary, The Royal Institute of Public Health, 23 Queen Square, London, W.C.1.

GLYCERIN AND HONEY JELLY.—Macleans, Ltd., Great West Road, Brentford, have sent us a sample of their newest product and of the showcards they are issuing in connection with it. Both are shown in the accompanying illustration. Glycerin and honey jelly have a long-established reputation as a winter remedy for chapped hands.



Messrs. Macleans' preparation is attractively packed in lime-green and black cartons and tubes, and with every order the two showcards are supplied. These are small and quite easily displayed in the window or on the counter, where they take up very little room.

MULTIFIT RAZOR BLADES.—Ocean Blades (Great Britain), Ltd., Bridgewater Place, Aldersgate Street, London, E.C.1, announce the introduction of a new razor blade which will fit most of the double-edge razor blade holders on the market. This new line is to be supplied under the name of Ocean Multifit.

HOTEL ACCOMMODATION.—Without knowing the circumstances of the inquirer it is difficult to answer satisfactorily questions relating to hotel accommodation for C. & D. subscribers proposing to stay in London. A hotel which is centrally situated, comfortable, with hot and cold water in all rooms, is the Cora, Upper Woburn Place, W.C.1, and intending visitors should write for terms. It is particularly convenient for those whose business takes them to the Pharmaceutical Society's premises in Bloomsbury Square.

HOLIDAY ARRANGEMENTS.—We have received the following additional particulars of holiday arrangements:—Castle Huskisson, Ltd., Moon Street, London, N.1 (closed from Saturday, December 23, mid-day, to Wednesday morning, December 27); Hopkin & Williams, Ltd., 16-17 Cross Street, London, E.C.1 (closed from Friday evening, December 22, to Wednesday morning, December 27); J. F. Macfarlan & Co., Abbeyhill Chemical Works, Edinburgh (closed on December 25, and on January 1 and 2).

FINE-GRAIN DEVELOPER.—Johnson & Sons, Manufacturing Chemists, Ltd., Hendon Way, Hendon, London, N.W.4, have brought out a new developer specially suitable for development of films producing miniature negatives. The popularity of these small films and the

necessity for enlargements instead of contact prints has focussed attention of the production of fine grain images. Messrs. Johnson inform us that they have satisfied themselves after exhaustive experiments that this developer will prove of great value to users of the sensitised material referred to. It is well known that developers for producing fine grain are exceptionally slow in action, but the new developer (supplied in powder form in tins) shows great improvement in this direction since, according to the instructions, the films generally used by amateurs—Kodak and Selo—require nine minutes at 65° F.

Proprietary Articles Trade Association

Council Election

THE results of the poll in the Council election of the Proprietary Articles Trade Association was declared on December 19 as follows:—

MANUFACTURERS' SECTION

Voting papers issued, 387; returned, 218; disallowed, 2. Result:—

Christy, Thos., & Co. ..	170	Horlick's Malted Milk Co., Ltd. ..	179
Gibbs, D. & W., Ltd. 182		Newton, Chambers & Co., Ltd. ..	150
Gollin & Co. (Pty.), Ltd. ..	128		

The successful candidates are Thos. Christy & Co., D. & W. Gibbs, Ltd., Horlock's Malted Milk Co., Ltd., and Newton, Chambers & Co., Ltd.

WHOLESALE SECTION

Voting papers issued, 59; returned, 51; disallowed, 1. Result:—

Ayrton, Saunders & Co., Ltd. ..	38	Raimes, Clark & Co., Ltd. ..	46
Hovenden & Sons, Ltd. 15		Sangers, Ltd. ..	28
McMullan, Thos., & Co., Ltd. ..	35		

The successful candidates are Ayrton, Saunders & Co., Ltd., Thos. McMullan & Co., Ltd., Raimes, Clark & Co., Ltd., and Sangers, Ltd.

RETAIL SECTION

Voting papers issued, 9,521; returned, 3,102; disallowed, 61. Result:—

Crowe, J. E. ..	731	McBryde, W. O. ..	1,744
Howells, W. S. ..	1,747	Marshall, H. H. ..	1,692
Keall, John ..	2,041	Rowell, P. F. ..	1,638
Marns, Thos. ..	1,753		

The successful candidates are Messrs. W. S. Howells, John Keall, Thos. Marns and W. O. McBryde.

Wills

MR. GEORGE ROBERT BARCLAY, 24 Kirkstall Road, Streatham Hill, S.W.2, chairman and managing director of Barclay & Sons, Ltd., druggists sundriesmen, Farringdon Street, E.C.4, died on November 13 last, in his eighty-second year, leaving £7,706 12s. 4d., with net personality £7,659 1s. 7d.

MR. FREDERICK WILLIAM FLETCHER, Ph.C., F.C.S., of Windmill, Enfield, N., late governing director of Fletcher, Fletcher & Co., Ltd., manufacturing chemists, Vibrona Laboratories, Holloway, N., who died on October 19 last, aged eighty, left estate gross value £274,337, with net personality £270,878.

SIR EDWIN DODD, Springfield, South Hill, Bromley, Kent, a member of the Baltic Exchange for forty-five years, a director of Fairclough Dodd & Jones, Ltd., oil brokers, of St. Mary Axe, E.C., who died on May 3 last, aged seventy-four, left estate gross value £58,312, with net personality £54,412.

Births

Notices for insertion in this column must be properly authenticated.

SMALL.—On December 11, Dorothy, wife of T. B. Small, chemist and druggist, Fisherman's Walk Pharmacy, Bournemouth, of a son.

Deaths

CLAYTON.—At Leeds, on December 7, Mr. John Clayton, chemist and druggist, aged twenty-five.

EPTON.—At 44 Double Street, Spalding, on December 15, Mr. Thomas Shadford Epton, aged eighty-eight. As a youth Mr. Epton assisted his uncle, the late Mr. Major Shadford, chemist and druggist, Market Place, Spalding. He afterwards took over the business, which he continued till the death of his only son and partner, Mr. James Epton, chemist and druggist, in 1920.

GARDNER.—At Anerley, London, S.E., recently, Mr. Hermann Charles Thomas Gardner, chemist and druggist, aged sixty-five. Mr. Gardner was pharmacist at Queen Mary's Hospital, West Ham Lane, E.15, for nearly thirteen years.

GIBBONS.—On December 16, Mr. Walter Gibbons, Ph.C., 23 Burlington Road, Blackpool. Mr. Gibbons passed the Major examination in 1879. In 1891 he was appointed chemist to Queen Victoria, an office later confirmed by King Edward VII. During the war he did voluntary work for the Government. Mr. Gibbons is survived by a widow and two daughters.

GREENWOOD.—In Victoria Hospital, Blackpool, on December 14, suddenly, of heart failure following an operation, Mr. John William Greenwood, chemist and druggist, 246 Talbot Road, aged sixty-one. Mr. Greenwood, who was a native of Yorkshire, carried on business at Blackpool for a long period. He leaves a widow, a son and a daughter.

HOWELLS.—At Cerau, Glamorganshire, on December 2, Mr. Gwilym Harries Howells, chemist and druggist, aged sixty-two.

JEANS.—Recently, Mr. Alfred Jeans, chemist and druggist, proprietor of Jeans & Co., 151 Oxford Road, Manchester, aged seventy-one. The business owned by Mr. Jeans dates back more than a century, and during that period has had only three changes of proprietorship. The interment took place at the Southern Cemetery, Manchester, on December 13.

JONES.—On December 12, Mr. Thomas Jones, chemist and druggist, Gilwern, Tregaron, aged eighty. Mr. Jones was for a long period a governor of the Cardiganshire County Schools.

MAY.—At 25 Church Street, Stranraer, on December 17, Mr. Walter James May, chemist and druggist. Mr. May qualified in 1920.

NORMAN.—On November 28, Mr. John Turton Norman, retired chemist and druggist, for many years in business at Yoxall, Staffs, aged seventy-seven.

PARKER.—At a Bradford nursing home, on December 10, Mr. John Thomas Parker, chemist and druggist, 21 Mill Hey, Haworth, aged fifty-seven. Mr. Parker had carried on business at Mill Hey for the past thirty-two years. He leaves a widow and a son.

PLUMB.—On December 4, Mr. J. H. Plumb, representative of Saville Perfumery, Ltd., Junction Laboratories, Watford.

POLSON.—At Whipps Cross Hospital, on November 21, Mr. Ferguson Rennie Polson, chemist and druggist, aged thirty-nine.

PRAIN.—On December 7, Mr. John Smith Prain, chemist and druggist, High Street, Linton, Cambridge,

aged fifty-five. Mr. Prain, who was a native of Dundee, took over the pharmacy at Linton about four years ago.

WHITLA.—The funeral of the late Sir William Whitla, M.D., LL.D., D.Sc., L.P.S.I., whose death was recorded in our issue of December 16 (p. 730), took place at Belfast on December 13. Among those present were the Lord Mayor and members of the Corporation of the city; the Vice-Chancellor and members of the Senate of Queen's University; Lord Justice Andrews; Judge Thompson; Sir Charles Blackmore (representing the Prime Minister of Northern Ireland); representatives of both Houses of Parliament; Mr. R. I. Edwards (ex-president of the Pharmaceutical Society of Northern Ireland); and Mr. Fred Storey (president of the Chemists' and Druggists' Society of Ireland).

WILSON.—At Tranmere, Birkenhead, on December 2, Mr. Samuel Wilson, chemist and druggist, aged eighty.

Personalities

MR. EWART WOOLLEY (Cupal, Ltd.), Blackburn, is shortly sailing for South Africa on a business tour.

MR. JOHN GIBSON, chemist and druggist, Hexham, lectured there on December 1 on "Haunts near our Homeland."

MR. A. J. ESLEY, chemist and druggist (Thornbers (Chemists), Ltd.), Accrington, has forwarded £100 to assist the Mayor of Accrington in bringing happiness to local homes this Christmas.

MR. E. H. WHITFORD, chemist and druggist (manager, Condy M'Ren & Son, chemists, Plymouth), passed the Fellowship examination of the British Optical Association recently held in London.

MR. CLAUDE OSMOND MAURICE BENTON, chemist and druggist, 53 Earham Road, Norwich, informs us of his engagement to Miss Frances C. Wright, eldest daughter of Mr. and Mrs. Wright, "Sunny Corner," Sheringham.

MR. J. E. MOSSMAN, chemist and druggist, has been appointed to succeed the late Mr. W. Thomas as the representative in the Midlands territory for The British Drug Houses, Ltd. Mr. Mossman will take up his duties on January 1, 1934.

MR. ALFRED HIGGS, J.P., chemist and druggist, Kingston-on-Thames, has been elected chairman of the Licensing Justices for the Borough. Mr. Higgs is also the representative of the Justices on the County of Surrey Licensing Committee.

MR. JOHN H. WOOD, who has been senior assistant pharmacist at the Sheffield Royal Hospital since April 1928, has been appointed as chief pharmacist at the Cancer Hospital, Fulham Road, London, S.W. Mr. Wood, who had dispensing experience in two other hospitals, was the only provincial candidate for the post. He was educated at Nottingham High School and Nottingham University College.

MR. F. J. FLOWERDEW, B.Sc., chemist and druggist, has been admitted to the Associateship of the Institute of Chemistry. Mr. Flowerdew, after his career at the University and School of Pharmacy, Birmingham, was engaged in retail pharmacy for several years, and is at present in charge of the chemical and veterinary research work of Bob Martin, Ltd., Southport.

THE Installation meeting of the Edward Terry Lodge of Freemasons was held on December 14 at the new Masonic Temple, Great Queen Street, London, W.C.2, when W. Bro. W. Lloyd Evans was installed as W.M. Among the officers appointed were W. Bro. Tom Batey (as chaplain) and Bros. W. C. Tarry, W. R. Roberts, and W. B. Falding. The toast of "The Guests" was ably proposed by W. Bro. John W. Royle and responded to by W. Bro. John Keall, president of the Pharmaceutical Society. Among those present were W. Bros. Donald Grant, A. J. Greatorex, E. J. Proudlock, and Bros. F. E. Lever and J. Wadsworth Barton.

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VETERINARY COUNTER PRACTICE.

Chemists interested in veterinary practice will find the work indispensable, as it deals with the ailments of horses, cattle, sheep, pigs, dogs, and poultry, and the remedies that can be supplied. New edition 1930 (Eighth) brings this book thoroughly up to date. Price 7s. 6d. net, by post 8s.

PRACTICAL METHODS OF URINE ANALYSIS.

This department of chemistry is one which those behind the retail counter can profitably cultivate. The object of this book is to give chemists exactly the information they want on the subject. The book was written by a pharmacist who was an expert in this work, and has been revised by a medical practitioner and lecturer of long experience in clinical analysis. (Fourth Edition). Contains 97 pages. Price 4s. net, by post 4s. 3d.

PHARMACEUTICAL FORMULAS (P.F. VOL. 1)

The tenth edition of this, the most complete pharmaceutical formula in the English language, comprises (1) selected formulas from the British, United States and several other pharmacopoeias; (2) unofficial formulas from hospital pharmacopoeias and other sources, British, colonial and foreign; (3) known, admitted and approved remedies (218 pages) taken from previous editions of "Pharmaceutical Formulas" and from *The Chemist and Druggist* Diaries; (4) concise descriptions of practical methods of manufacture, adapted to the retail shop; (5) an Appendix comprising laws and regulations governing the sale of poisons, the hours of closing, medicine-stamp duty, the use of spirits and many other data—e.g., a solubility table and chart. This volume contains 1146 pages. Price 15s., by post 15s. 9d.

THE C. & D. PRICE LIST FORMULARY, "P.L.F."

All users of the C. & D. Retail Dispensing Price List require a copy of this Formulary. It brings together the formulas for unofficial preparations, the prices of which are quoted in the Price List. It is a choice collection of good formulas for articles in everyday request by the public. Price 2s. 6d. post free.

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Australia. Auckland, New Zealand.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

B/21. Creatinine	S/21. Kemset chemical set
E/21. Crepe de chene perfume	B/15. Orchid Milk toilet preparation
E/21. Dralle's Illusion perfume	E/21. Pogson's soap and leaflets
O/21. Glostrine	

THE CHEMIST AND DRUGGIST

VOL. CXIX. DECEMBER 23, 1933 NO. 2811

The "C. & D. Diary," 1934

THE general improvement in trading conditions during the past few months has been such that it seems safe to predict that Great Britain can contemplate with real confidence the business prospects of 1934. With better trading conditions in view, New Year sales plans should be framed on well-conceived lines, and for assistance in this direction our subscribers will welcome the 1934 *C. & D. Diary* that has just been dispatched to them. There are three articles to which we would direct special attention, namely, "The Ideal Pharmacy," "Some Toilet Formulas," and the "Pharmacy and Poisons Act, 1933." The first-mentioned is from the pen of our well-known contributor "Ubique," whose articles in the *C. & D.* are always appreciated by chemists. He has described, with drawings, the fitting out of three pharmacies designed respectively to meet the needs of the man with adequate finances to equip a high-class establishment; to solve the problems of one who has chosen a good site but has limited capital available; and, finally, to assist the pharmacist possessing just sufficient wealth to open on his own account and no more. The last is bound to consider every penny spent on equipment. It is not to be expected that these three designs will meet in every particular the needs of every chemist opening a new business, but they will form an excellent starting point and can be modified as occasion demands. The sale of toilet preparations is one of the most profitable branches of the drug trade—wholesale and retail—but it is the one in which fashions change most frequently. Face powders, lotions, creams, soaps and perfumes are being constantly improved, and the recipes given by Mr. Doubleday in this year's *Diary* should be a great help to those who desire to make the most of this class of business. The third article to which we referred, the Pharmacy and Poisons Act, 1933, comprises the text of the Act in full, with annotations. The treatment in this manner of the legislation which marks a new era in pharmacy will be read and pondered over by all our subscribers, not only during 1934, but for some time to come.

Poisons and Poisoning

Mention of the Act brings to mind the present regulations governing poisons. Statutory restrictions on the sale of poisons in Great Britain, Northern Ireland and the Irish Free State, have always been a feature of the *Diary*, and appear again this year, as there could be no more accessible place for them, while the form in which they are printed makes for easy reference and interpretation. The new Poisons Board will presumably in the course of time reconstruct the present Schedule, but any alterations will immediately be announced in *THE CHEMIST AND DRUGGIST*. Handling poisons is the business of pharmacists, and

full knowledge should be theirs in the provision of general or specific antidotes. The treatment of poisoning cases is essentially medical, but, while the physician will provide himself with all the requisites his experience has taught him to be necessary, the chemist should be prepared to meet any demands for immediate treatment, since success frequently depends on such application of knowledge. To help chemists in this respect we have included in the *Diary* a comprehensive article on "Poison Antidotes and the Treatment of Poisoning." A summary of the chief provisions of the Import Duties Act, 1932, and the duties at present in force, will be of special interest to certain sections of the trade. Other articles to which attention may be drawn include a synopsis of the National Insurance Acts, with particular reference to contributions, medical benefit and pharmaceutical service; Food and Drugs Adulteration Act, 1928; Spirit Laws and Regulations; Registration of Business Names; Income Tax; Patents, Designs and Trade-Marks. On the directory side of the *Diary* there is a classified list of Drug-Trade Organisations, with the names and addresses of the secretaries. Since this section of the *Diary* went to Press we have received notifications of the following changes:—

CHESTERFIELD BRANCH OF THE PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. S. C. Greaves, Market Place, Chesterfield.

SHEFFIELD BRANCH OF THE PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. G. F. Thompson, 551 Eccleshall Road, Sheffield.

BRIGHTON AND HOVE ASSOCIATION OF PHARMACY.—*President*, Mr. J. E. Vickers.

GREAT YARMOUTH PHARMACEUTICAL ASSOCIATION.—*President*, Mr. E. King.

LONDON (COUNTY) PHARMACEUTICAL ASSOCIATION.—*President*, Mr. J. J. G. Hay.

MORAY AND NAIRN PHARMACEUTICAL ASSOCIATION.—*President*, Mr. D. G. Hughes, *Secretary*, Miss Allan, 176 High Street, Elgin.

LONDON (SOUTH WEST) BRANCH OF THE NATIONAL PHARMACEUTICAL UNION.—*Secretary*, Mr. E. Neville Brown.

One of the reasons why all our subscribers in business prize the *Diary* is for the large number of advertisements, as they feel that with it and the weekly issues of *THE CHEMIST AND DRUGGIST* they have available an encyclopædia of drugs, chemicals, druggists' sundries and the thousand and one articles stocked and sold by chemists. The Buyers' Guide section of the *Diary*, which is printed on pink paper, is the most complete of its kind, and anyone who is unable to find there what is wanted can only make a special inquiry from our Information Department. Another useful section of the *Diary* is the alphabetical list of advertisers with their names, addresses, telegraphic addresses and telephone numbers. Coloured insets by well-known manufacturers were always a feature of the *Diary* in pre-war days and it is interesting to note that in this latest issue (the sixty-sixth) there are many announcements printed in two colours, while photogravure is increasing in popularity—indications of confidence in the future prosperity of the drug-trade.

Heavy Hydrogen: A Significant Discovery

Lecture By Ernest Bowman Ludlam, M.A., D.Sc.

THE second meeting of the Pharmaceutical Society's winter session in Edinburgh was held on December 15, Mr. David Harley (chairman of the Executive) presiding.

THE CHAIRMAN said pharmacy had suffered a great loss in the death of Mr. John T. Humphrey, a member of the Society's Council. Mr. Humphrey had taken a great interest in pharmaceutical organisation and the younger members of the craft. He would be much missed by many friends. He felt sure they would note with much gratification that Professor George Barger, of the University of Edinburgh, had been awarded the Hanbury memorial gold medal. Professor Barger was well known to Scottish pharmacists, and they desired heartily to congratulate him on this well-merited honour. It gave him great pleasure, the chairman continued, to introduce the lecturer, Dr. Ernest Bowman Ludlam, of Edinburgh University. As examiner in chemistry on the Scottish Board of Examiners, Dr. Ludlam was well known to many of them. In "The Times" of that day's date there was a report of an important discussion on the subject of "Heavy Hydrogen" at a meeting of the Royal Society in London on the previous day. In that discussion it was spoken of as the most important discovery of the present century. He had pleasure in calling upon Dr. Ludlam to give an address on

Heavy Hydrogen: A Significant Discovery

[ABSTRACT]

It is not too much to say that the recent discovery of a new kind of hydrogen has created something of a sensation in the scientific world—although discoveries have come so thick and fast that we are all getting hardened nowadays. Hydrogen was so called because it is one of the two essential constituents of water—a fact discovered 150 years ago. Since that time it has been subjected to continual and rigorous examination and its atomic weight relative to oxygen has been determined with the most meticulous care; but it is only two years ago that any suspicion arose that it might possibly contain two different kinds of atom. The marvellous development in recent years of our knowledge of matter, energy and radiation has given us methods of determining atomic weights far exceeding in delicacy the methods of the chemist. We know now that many elements are mixtures of isotopes, i.e., elements practically identical chemically but differing slightly in atomic weight. In 1929 a study of the absorption band spectrum of oxygen in the atmosphere showed that oxygen contained an isotope of mass 18. Later, this was proved to be present in the proportion of about 1 in 650. The chemical atomic weight, 0.16 , is an average value, and the common oxygen atom must have a weight a little less than 16. This threw out the accepted value of the ratio of the hydrogen atom to the oxygen atom, but if hydrogen also had an isotope of mass 2, in the right amount, it would bring things right again. In May 1931 Birge threw out the suggestion that an isotope of hydrogen might exist with atomic weight 2 and in the proportion of about 1 part in 4,500 of ordinary hydrogen. The suggestion was interesting to a narrow circle who were following the discoveries which gave Birge the idea, but only during the last few months since the truth of the prediction has been established has wide interest been evoked and the importance of the discovery been realised. In physics and the study of the constitution of matter, in chemistry and particularly organic chemistry, in botany, biology and medicine, the discovery of a second kind of hydrogen is of the greatest significance.

PROPOSED NAMES

Its name may be of international importance. The Americans have proposed the name "deuterium," but in a discussion at the Royal Society in London, on

December 14, Lord Rutherford suggested the name "diplogen." Urey, in New York, examined the atomic spectrum of hydrogen very carefully, and found a very fine line at exactly the right distance from the red hydrogen line. He concentrated the heavy hydrogen by evaporation of liquid hydrogen, and found that he had then increased the intensity of the new line. Then experimenters in several countries set to work to concentrate the heavy hydrogen. The most successful of these was G. N. Lewis, of California, who found that continued electrolysis of an aqueous solution of sodium hydroxide concentrated the heavy water in the residue. In March 1933, Lewis had obtained water of density 1.03, i.e., about 30 per cent. of the hydrogen in it was of atomic weight 2. Heavy water had now been obtained quite pure and had the following properties:—Density 1.105, freezing point 3.8°C ., boiling point 101.42°C ., temperature of maximum density 11.6°C ., electric conductivity $2/3$ that of ordinary water. Nearly ten years ago, under Professor Kendall's direction, some interesting research work was done in the Edinburgh University laboratory on the isotopes of mercury. This suggested a research on the prediction made by Birge as to isotopes of hydrogen, and a good deal of work in that connection has been done. This work corroborated and, as a matter of fact, very nearly anticipated, the results obtained by the American investigators. If water contained only this heavy form of hydrogen, our ponds would freeze at 39°F . instead of 32°F ., our kettles would boil at 214.5°F . instead of 212°F ., and its maximum density would be at 52°F . By the chemist, the behaviour of this new hydrogen will be watched with interest, as it takes part in those reactions and in aqueous solutions where ordinary hydrogen has evaded observation because all hydrogens were alike. Now we can, so to speak, put a ring round their legs in the same way as people do to birds. It is the organic chemist, however, who is likely to have the liveliest time, for there may be five different methanes and thirty-two ethyl alcohols, of which eight pairs will be optical isomers.

POSSIBILITIES IN BOTANY AND BIOLOGY

In botany and biology it may be early to predict, but here are some indications of possibilities. Tobacco seeds which sprouted in two days, and gave good seedlings in two weeks in ordinary water, did not germinate in heavy water; in 50 per cent. heavy water and ordinary water the development proceeded at half the normal rate. Comparative experiments with water (a) containing 92 per cent. of heavy water and water (b) containing 30 per cent. of heavy water were tried on the following organisms:—

- (1) Tadpoles (a) dead in 1 hour; (b) unaffected after 24 hours;
- (2) Aquarium fish (a) dead in 2 hours; (b) no effect in 24 hours;
- (3) Flatworms (a) dead in 3 hours; (b) uninjured in 3 days.
- (4) *Paramecium* (a) dead in 24 hours; (b) no effect in 3 days.

In nearly pure heavy water, spirogyra filaments were characterised by lack of movement, absence of abscission and greater longevity than in distilled water. Apparently heavy hydrogen slows down the life processes, and the higher the form of life the more pronounced is the effect. When pure, it might inhibit life altogether. Chemists might have to keep it in bottles labelled "Poison." When we reflect on the extraordinary specific power of the biological organism, its uncanny power of selecting or rejecting, the marvellous sensitiveness of the balance of living matter and the growth and development of homo sapiens himself, we await with eagerness—perhaps even trepidation—the results to pharmacology of the addition to the British Pharmacopœia of the new and potent drug, heavy water. Already there has been one remarkable scientific application of heavy hydrogen. When used as a minute projectile, flung against other

atoms with enormous speed, it batters and disrupts them. It thus becomes a powerful weapon in the modern line of research for transmutation of the elements. In the discussion at the Royal Society on December 14, Professor Soddy is reported as saying that he wanted to protest as forcibly as he could against the description of heavy hydrogen as an isotope. He had not seen any evidence that we were not dealing with something like the difference between oxygen and ozone. I think the answer to Professor Soddy is quite clear in the literature relating to heavy hydrogen. I have shown on the screen to-night the heavy hydrogen lines in the spectrum. These lines are produced by the atom, and ozone is not an atom. It is clear, therefore, I think, that we are dealing with an isotope. Hydrogen is so fundamentally important that it is impossible to place limits to the far-reaching results of this new discovery.

Vote of Thanks

MR. THOMAS WILSON, in moving a vote of thanks, said they had listened to an address on a subject of most extraordinary interest. He had great pleasure in moving that they indicate their appreciation by according to Dr. Ludlam a very hearty vote of thanks.

MR. JAMES NESBIT, in seconding, said the racy way in which Dr. Ludlam made his points in expounding a very difficult and abstruse subject had made the lecture very pleasant to all of them.

THE CHAIRMAN, in conveying the vote of thanks, said there was evidently no finality in scientific research. They were highly honoured in being the first society in Scotland to have this most interesting scientific advance so delightfully explained by Dr. Ludlam.

DR. LUDLAM replied.

Pharmaceutical Society of Great Britain

Codex Revision Committee

The Council of the Society has ordered publication of two more reports in connection with the next British Pharmaceutical Codex (see *C. & D.*, December 16, p. 737). The report of the Pharmacognosy Subcommittee (Pharmaceutical Press: 2s.) gives provisional details regarding the more important crude drugs for which the subcommittee have recommended a British Pharmaceutical Codex standard, but does not discuss "the larger portion of the subcommittee's work on the revision of the descriptions, characters, constituents and commercial varieties."

The report of the Action and Uses Subcommittee (Pharmaceutical Press: 1s. 6d.) consists of "certain sections from the descriptions recommended and the standards proposed for the more important" of about fifty drugs, most of which are of animal origin. Any suggestions that may occur to readers of these publications should be addressed to the editor of the new Codex, Mr. C. E. Corfield, 17 Bloomsbury Square, London, W.C.1.

Branch Meetings

Bedfordshire.—A well-attended meeting of the Bedfordshire Branch was held recently, Mr. G. L. Whitmore in the chair. Mr. F. W. Adams (assistant secretary of the Society) gave an address on *The Pharmacy and Poisons Act*. Great interest was shown in the address, and many questions were asked. A vote of thanks was proposed by Mr. A. W. Morgan.

Dundee.—A meeting of the Dundee and East and Central Scottish Branch was held on December 14, Mr. J. R. MacDonald (Perth) in the chair. Among those present were Mr. J. Jack (Arbroath) and Mr. J. Rutherford Hill (Edinburgh). Mr. John Anderson (Dundee) and Mr. J. C. Smail (Perth) reported as delegates to the

London Conference. A discussion on the Society's vacation course revealed that it would not be of much use to Scottish members, though one or two lectures to various branches would be useful. Dr. McCall urged the importance of pharmacists seeing that apprentices held the proper certificate before being apprenticed. Mr. J. Rutherford Hill spoke on the new proposals affecting practical training in pharmacies. He was followed by Mr. Jack. It was moved by Mr. C. Stephen that "this Branch approves generally of these proposals, but before anything definite was settled, the branches should have an opportunity of discussing them." Prizes were presented to the successful pupils of the School of Pharmacy.

Isle of Wight.—At a meeting of the Isle of Wight Branch, held on November 19, Mr. H. L. Warne (Ventnor) presiding, Mr. H. B. Mackie gave an address on *The Future of Pharmacy in Relation to Biochemistry*, and Mr. F. Browne (representing the Pharmaceutical Society) on *The Activities of the Society*. Questions were asked by Messrs. G. Nicholson and E. W. Pollard (Ryde), E. W. Beken and F. D. Coghlan (Cowes), and J. Dunning and H. L. Warne (Ventnor). Mr. Browne outlined the new suggestions for the improvement of apprenticeship, and Mr. Mackie detailed a scheme providing for the student to take his schooling before entering the shop.

Leicester.—A meeting of the Leicester and Leicester-shire Branch was held at the College of Technology on December 10. A representative gathering of chemists, together with a number of students from the Department of Pharmacy, attended to hear a lecture on *Halibut-Liver Oil and the Methods of Vitamin Standardisation* by Mr. John F. Ward, B.Sc. (chief chemist to the Crookes Laboratories). The lecture was illustrated by means of lantern slides, and the chemical tests for vitamin A were demonstrated. Three cinematograph films were then shown, dealing respectively with vitamin A, vitamin D, and fishing as it is conducted from a small line boat. Mr. Ward's lecture covered the subject of the vitamins A and D in a comprehensive manner. The chairman (Mr. S. F. Burford) called on Messrs. H. Densham and A. E. Young to propose and second respectively a vote of thanks.

Somerset.—A meeting of the Somerset Branch was held on November 9 and was fairly well attended. Mr. Walter Deacon was in the chair. The speaker was the treasurer of the Society (Mr. A. H. Jenkin), who dealt with *The Pharmacy and Poisons Act*. Question time followed Mr. Jenkin's address. The chairman thanked the speaker. Over the tea table one or two matters of interest were discussed, notably whether a dinner and dance should be arranged for February.

Warwickshire.—The Warwickshire Branch met at Coventry on November 30. There was an excellent attendance to welcome Mr. Thomas Hardy (a member of the Society's Council) and to hear his address on *Vital Matters Connected with the 1932 Pharmacopœia*. At the commencement of the meeting the president (Mr. Rudy) referred to the great loss the Branch had sustained in the death of Mr. Harry Hutton (Leamington) and Mr. Henry Lester (Nuneaton), late president and vice-president respectively. The new examination regulations were submitted, and members were requested to communicate with headquarters before accepting pupils. The Branch supported the suggested proposals affecting practical training of apprentices in shops (referred to in the *C. & D.*, December 2, p. 675), and viewed with regret any possibility of the withdrawal of the vacation courses now held annually at Bloomsbury Square. Mr. Hardy commenced his address by remarking that he had studied the new Pharmacopœia from the view-point of the retail pharmacist, and earnestly stressed the importance of every such pharmacist making himself intimately acquainted with all the various changes brought into being by it. He referred to the new Codex now being compiled, and said it would be superior to its predecessors. He strongly urged all those who had apprentices to insist on their making every preparation that it was possible for them to make. A keen discussion followed, and many questions were answered by Mr. Hardy.

Festivities

Bradford Function

A WHIST DRIVE and dance, organised by the Bradford Branch of the Pharmaceutical Society, was held on December 13, and was in every respect an outstanding success. Over 230 members and friends were welcomed by the chairman (Mr. F. E. Burdett). Messrs. F. Appleyard, jun., and J. Holland acted as M.C.s for whist, and Mr. F. C. Wilson, former secretary of the Branch, and Mr. Eric Robinson were in charge of the dancing. The prizes were distributed by Mrs. F. E. Burdett to the winners at whist, and for spot and novelty dances. The whist winners were as follows:—*Ladies*, Mrs. W. Sutcliffe, Mrs. Taylor and Mrs. Woods (consolation); *Gentlemen*, Messrs. Craven, Lucas and Barford (consolation). Mr. and Mrs. Barford secured the two travelling prizes.

Glasgow Pharmacy Club

THE twenty-first anniversary of the Glasgow Pharmacy Club was celebrated by a supper in the Grand Hotel, Charing Cross, recently, when over sixty members and friends were present. The president (Mr. James McGillivray), with Mrs. McGillivray, was supported at the top table by Mr. George Mackay (honorary president), Mr. David Black (senior vice-president) and Miss Black, and Miss A. MacCallum (junior vice-president). After supper, an interesting programme of songs and readings was thoroughly enjoyed, the artists being Miss F. Heron, Miss A. Gair, Messrs. R. Dickson, R. McAdam and A. W. Calder. The principal toast of the evening was proposed by Mr. Mackay, who was president of the Club for the first seven years. In proposing "The Twenty-First Anniversary," he wished the Club long life and prosperity. He sketched its history and told of the difficulties of the early days. Mr. Mackay urged the younger members of the craft to take more interest in the work and so carry on the great traditions of the Club. Mr. W. Wood Wilson and Mr. H. P. Arthur replied to the toast. Mr. Arthur hoped they would soon have rooms of their own. Mr. D. Black (vice-president), in proposing the toast of "The Donors," said these generous gentlemen had done a great deal towards furthering the objects of the Club.

Birmingham Golfers at Dinner

THE fourth annual dinner and presentation of trophies of the Golf Section of the Birmingham Pharmaceutical Association was held on December 6 at the Farcroft Hotel. The gathering was a marked success, upwards of seventy members and friends sitting down to an excellent repast, presided over by the president (Mr. Maurice Smith). The loyal toast was given with musical honours, after which "The Birmingham Pharmaceutical Association and Golf Section" was proposed by Mr. L. H. Teare. The Golf Section, he said, had proved a wonderful success. Replying, the president said they had every reason to be proud of their Association and of the work it had done through a long number of years. The Golf Section had been taken up with enthusiasm, and the gathering that night clearly showed that the formation of the Section was filling a desire among the chemists of the district. "The Donors" was proposed by Mr. A. S. Price (chairman of the Section), who said it was chiefly due to the splendid generosity of the donors that the Section continued to be a proved success. Mr. E. D. Barclay (Southall Brothers & Barclay, Ltd.), responding on behalf of the donors, said it was a pleasure for him to be with them again. He could speak of the ability of the members, because he had joined them in several competitions. In the absence of Mr. H. Miller (United Chemists' Association, Ltd.), Mr. R. Spargo also replied on behalf of his firm. The president proposed a toast to the secretary, to whose untiring energy and enthusiasm their success was largely due. The president was accorded a hearty vote of thanks, expressed by Mr. C. H. White, for presiding over the function. An enjoyable musical programme was provided by Miss Cattell, Messrs.

T. Varley, W. Kelly, A. Brown and T. Little, to whom Mr. F. L. Dent sponsored a warm vote of thanks. The following were the prize-winners for the season:—Cuxson Gerrard bowl and replica to Mr. A. Cox; Mr. Maurice Smith's replica to Miss B. Siviter; Golf Section prize to Mr. J. Frost; Alco cup and replica to Mrs. T. H. Martin; Alco cup replica, 1932, to Mrs. A. S. Price; Burgoyne cup and replica to Mr. T. R. I. Norman; Ucal cup and replica to Mr. F. L. Dent; Mr. R. Spargo's prize to Mr. R. O. Busby; Captain's prize to Miss B. Siviter; Association cup to Mr. A. H. Smith; Association cup to Miss B. Siviter; Coty cup and replica to Mr. T. H. Martin; Coty cup replica, 1931, to Mr. F. L. Dent; Southall Brothers & Barclay's cup and replica to Mr. H. Corbett; Potter & Moore cup and replica to Mr. W. O. Payne; Golf Section prize (four competitions) to Mrs. L. H. Teare; Mr. W. H. Fletcher's prize (best aggregate five cards) to Mr. J. Frost (389); Mr. A. S. Price's prize (best aggregate five cards) to Miss B. Siviter (390).

Association Meetings

Enfield.—A meeting of the Enfield and District Chemists' Association was held on November 30, to discuss a proposed arrangement between local doctors and chemists, whereby the former may be relieved of the duties of dispensing without extra charge to the patient. After much discussion it was agreed that local doctors be approached on the scheme; that the secretary write to the local Ethical Society; that fees for dispensing and cost of drugs be based on National Health Insurance rates; and that chemists agree to dispense any prescription once only. It was proposed to invite the local medical officer of health to attend the next meeting to discuss the question of goods distributed by welfare centres. The secretary was instructed to arrange another outing for members.

London (S.W.)—At a meeting of the South-West London Chemists' Association, held on December 8, the sad news of the passing of Mr. John Humphrey was received by the members, who remained standing in silence as tribute to one of their past-presidents (1918-1921). The president (Mr. W. A. Shakerley), Mr. E. Saville Peck, Mr. W. K. Fitch and Mr. Fred Storey (Pharmaceutical Society of Northern Ireland) paid their respective personal tributes during the speeches of the evening. In outlining the Society's proposals for the training of apprentices, Mr. E. Saville Peck (vice-president of the Society) said the proposals were not the last word. The Society welcomed suggestions. He did not think that conditions to-day were as good as those of twenty-five years ago for the training of apprentices. The teaching of pharmacy in schools must be regarded, he said, as purely a veneer. During the discussion, Mr. J. E. Monaghan cited the case of one of his apprentices who, after qualifying, could see no future for pharmacy so ultimately qualified as a solicitor. Mr. Skues congratulated the Society for allowing free discussion in order to frame rules acceptable throughout the country. He suggested the idea of the apprentice master paying a large deposit to the Society, who would return it if the student passed an examination showing that he had been satisfactorily trained. Mr. E. Neville Browne welcomed the proposals, as one of the younger members who may live the longer to conform to the finally accepted regulations. He thought if bad training in the past had had anything to do with present unemployment it was borne out by the figures of thirty-one unqualified assistants and only twelve qualified members on the lists of the South-West London Employment Agency. Mr. Fred Storey said that in Northern Ireland they had insisted upon a four-years' apprenticeship of a forty-six hour week. Miss Borrowman made a forceful speech, and inquired whether they were training students to earn a living or to pass examinations. She thought they were doing nothing to provide a future for pharmacists. She wondered what would be done when inspectors reported unsatisfactory training. Mr. J. T. Hope-Evans suggested the reservation of a room in the Society's new house for the installation of apparatus.

tus which students might inspect. Mr. E. O. Rowlands urged the necessity of always explaining the curriculum to parents of prospective apprentices. Mr. Greenbat mentioned that in the Irish Free State Act, companies could not take apprentices unless all the directors were qualified. Mr. W. K. Fitch reminded the Association that many of the proposals now before them were submitted by the Association about eight years ago. Mr. Woodnoth asked whether it was desirable to train apprentices in company shops, as he had heard of cases in these shops where they were not permitted to make aqua chloroformi. He thought they would have two classes in the end (1) the business man, and (2) the true pharmacist. On a show of hands it was revealed that only seven retail members out of about thirty-four present were training apprentices. After Mr. Peck had replied to the discussion the following resolutions were carried:—(1) "That we agree in principle with the draft regulations." (2) "That the number of apprentices which may be employed shall be only one for each pharmacist, with provision for an overlapping period when the one apprenticeship terminates and a new one begins." (3) "That the meeting agrees in principle with the taking of the Preliminary Scientific examination before apprenticeship." Mr. Woodnoth moved a vote of thanks to Mr. Peck. Mr. Peck, in reply, expressed his appreciation of the constructive criticism that had been made. The following resolutions dealing with P.A.T.A. matters were carried unanimously:—(1) "That this meeting recommends to the P.A.T.A. that a white list be published of manufacturers and wholesalers who have signed an agreement not to supply any goods to cutters on the Stop List." (2) "The meeting also regrets that apparently no action is being taken to reduce the number of wholesalers handling P.A.T.A. goods, and considers the point essential to the effective functioning of the P.A.T.A."

Public Pharmacists.—A meeting of the Guild of Public Pharmacists was held on December 13, the president (Mr. H. Davis) in the chair. A lecture entitled *Pharmaceutical Fashions in Relation to Growth and Health* was given by Professor H. A. Harris, D.Sc., M.D., M.R.C.P. (Professor of Clinical Anatomy, University College). The

chairman, in introducing the lecturer, congratulated him on his appointment as professor of anatomy to the University of Cambridge. Professor Harris described the four main patterns of growth which occur in the skeletal, neural, lymphoid, and urogenital systems. These four systems in turn were analysed to indicate how the precocity of growth in the brain is superseded by the precocity in the organs of vision and hearing. The pattern of growth in the endocrine organs was briefly dealt with. Radiographs were shown of animals such as the rat, which are born in a helpless, premature stage, and of animals such as the pig and lamb, which are born at a stage comparable to that of the human child at seven years of age. These differences in the growth pattern were discussed as almost insurmountable difficulties in the translation of the results of animal experiments to the human being. Professor Harris dealt with the historical aspects of the empirical treatment of certain diseases in contra-distinction to the so-called scientific method. Rickets and scurvy were selected as two examples in which the clinical factors were correctly ascertained in the first place but were obscured by satisfying, as distinct from satisfactory, scientific reasons. The healing of scurvy by lemon juice and green vegetables was well known as a clinical fact, yet every constituent of the lemon juice, particularly citric acid, was regarded as the curative factor until the demonstration of vitamin C in the early years of this century. In the face of the success of lemon juice in clinical practice, scientific results were produced to prove that the healing could be obtained by the administration of citric acid, mineral acids or various salts. The lecturer briefly sketched the empirical uses of cod-liver oil as the "winter butter" of the Atlantic littoral before the stall-feeding of cattle had made winter milk and butter a possibility. He dealt with similar empirical customs, such as the storage of fish roe in the form of caviare, the hanging of game and the ripening of cheese. Too often, he said, was it forgotten that most of the scientific compounds of the biochemist were prepared from foodstuff. A discussion followed in which Messrs. Bullen, Greenaway and Lindsey took part. A vote of thanks to Professor Harris was proposed by Mr. A. H. Jenkin.

Physic in Phrase

By Charles Herbert

THE way the trade and profession have stamped themselves upon the current coin of conversation is no matter of surprise, remembering the way the chemist and doctor are, and have been, involved in the relief of suffering.

Here, before my eyes in a recent journal, a detective bluntly advises a crook to "take your medicine," meaning his punishment. The fact stressed there is the "nauseous" experience. But the same word has passed into a symbol for a remedy: "This was his sovereign medicine for all social complaints." And Oliver Wendell Holmes writes: "If the breakfast table papers have become medicated with a few questionable dogmas, the public has become used to much rougher treatment." He himself was an example of one of those writers who gave his readers many a bitter "pill" to swallow: though he was a masterpiece at "gilding the pill"—a phrase which had its origin in coating drugs with gold leaf. The shape of the pill being spherical, it is not astonishing that the use of any small round objects should take on the term "pill"; as for instance, when a candidate for a club has been blackballed he is said to have been "pilled," owing to the fact that the little balls used by the members in voting are pill-shaped. Neither is it surprising that an unpleasant companion should be accosted thus: "You're a pretty pill!"

It is by a similar natural process that other chemical and medical terms have drifted into ordinary use. For instance, Dryden and Byron were both described as "poets of caustic wit," implying that they wrote satires intended to burn. Applied to speech that term

"caustic" unites itself with a large class of words derived from the nature of an acid. "Acid remarks springing from the acidulated mood, usually associated with dyspeptic natures." In that quotation from a House of Commons' speech we find the practice in full swing.

It may be doubted whether such "sour" remarks do succeed in "ginger"-ing folk up. It is far easier to "chloroform" an audience by seductive oratory, and many public statements are intended to be "anæsthetics"; so, at least, many mob orators constantly declare, both with regard to politics and religion. "Dope, my friends, dope!" Strong statements!—But these mob orators do not know how to touch a subject "gingerly." Their "jaundiced eyes see all things yellow."

Another illustration came recently, when I heard a bore aptly described as being a "bit of a bromide." Such men must be rather hard to live with, and it is much easier to jog along with those of "effervescing" spirits. The only danger then is that they are generally of such a "mercurial" disposition that you can scarcely find them twice alike. Still they are easier to bear than the heavy, stilted, "starchy" people, and the most difficult operation in the world is to "take the starch out of them." Try what you will you will always find them "tinctured" with self-importance, and it is no wonder that they and their work eventually become "drugs in the market."

In all these words and phrases we have instances of the adaptation of medical and chemical terms in ordinary speech. There are many other examples. The word "dosage" is employed of the process of imparting liquors into wine. Another use of the word is that by Mrs. H. B. Stowe, concerning whipping and abuse: "You have to double the dose as the sensibilities decline." "A dose of catechising and fault-finding."

Fluorescence Analysis of Pharmaceutical Products

By J. A. Radley, M.Sc., A.I.C.

(Concluded from the "C. & D.," November 25, p. 642)

THE differences in opinion as to the cause of the fluorescence in olive oils are still more pronounced when the question of the detection of addition of refined oil to virgin olive oil is considered. The addition of refined to virgin olive oil certainly does change the colour of the fluorescence of the latter, but it would appear that the detectable amount varies with the delicacy of the instruments used in conjunction with the lamp. Stratta and Mangiui consider that 1 per cent. is detectable, a conclusion which has not been accepted by other workers in this field. Musher and Willoughby have used a spectrophotometer in conjunction with the lamp and consider that 5 per cent. of added refined oil is detectable using this apparatus, but they conclude that 65 per cent. is about the amount detectable by direct visual observation. Thus it will be seen that the method must be used with great care and other chemical and physical factors thoroughly reviewed before an opinion can be expressed as to the genuineness or otherwise of a particular sample. Where the lamp is of undoubted value is in the comparison between a sample submitted and the bulk of the oil delivered, and this also applies to a great number of other things. Cod-liver oils show a chestnut brown fluorescence, but on ageing this appears to change a little and take on a greenish or bluish tinge. There appears to be good possibilities of using the lamp in the estimation of the age and pre-treatment of samples of cod-liver oil. The detection of shark oil in cod-liver oil may also be carried out using the lamp, and the presence of mineral oil in neatfoot oil is readily recognised by the very strong blue fluorescence which the former occasions. Cacao butter that has been obtained by pressing shows no fluorescence but the extracted butter has a strong fluorescence, and the presence of the solvent extracted or waste butter in quite small amounts is readily detected in admixture with mechanically expressed butter.

The Paraffin Series

The strong fluorescence shown by mineral oil, and by petroleum jelly, and by hard paraffin allows of their instant detection in admixture with a variety of other compounds. Ointments and pastes containing but little of these compounds give an intense blue or violet fluorescence. Industrial paraffin oil appears a milky light blue colour, the refined product has a beautiful deep blue fluorescence which is not very strong, while the medicinal paraffin oil is practically inert under the lamp. Examples of the detection of mineral oils have been noted by the writer on several occasions. In one, an oily lotion for the treatment of sunburn was examined. Before any other tests had been made the sample was examined under the lamp and instead of obtaining a fluorescence showing the presence of a nut oil, as had been expected, the strong bluish violet fluorescence of a mineral oil was obtained and this was subsequently confirmed by the usual methods. In another case an unknown oil was submitted for analysis, the customer suspecting it to be a sample of seal oil, and a sample of genuine seal oil was also submitted for the purposes of comparison. The chemical examination of the two samples showed that the client's suspicion was correct, but the figures for the sample of "best quality seal oil" showed that at least 60 per cent. of mineral oil was present. On examining the samples under the lamp the first sample showed a greenish yellow fluorescence, whilst the sample alleged to be genuine seal oil gave an intense violet blue fluorescence characteristic of the medium mineral lubricating oils. Ointments and pastes containing greasy materials may be extracted with two portions of warm water, one being acidified, the other

being made alkaline with caustic soda. A blue fluorescence, very strong, in the acidified portion will often indicate the presence of quinine, whilst a violet fluorescence of the alkaline liquid often denotes the presence of salicylic acid, acetyl-salicylic acid or of one of the salts of these. These characteristic fluorescences are so strong as to mask the presence of any other alkaloid or compound present. The alkaline solutions of urotropin, caffeine, theobromine, thiosinamin and piperazin are devoid of fluorescence.

Pills, Honey and Vinegar

With pills information is often obtained by use of the lamp. Organic matters used possibly to colour the pill often show a fluorescence whereas inorganic pigments appear dark. If the pill is cut in half and the cross section examined a dull purple ring on the outside often denotes the presence of chalk or talc whereas a bright light-blue fluorescence often shows the use of lactose. Honeys give little or no information under the lamp, shades of pale blue being observed in most cases. The addition of even large amounts of glucose to a honey merely lightens the colour of the fluorescence, and the mixture may then appear similar to a genuine honey having a lighter coloured fluorescence. The detection of adulteration is, however, possible, if the absorption spectra in the ultra-violet region is observed. With many substances a differentiation between a natural and an artificial product is obtained, for example, a natural malt vinegar gives a strong blue fluorescence under the lamp, the fluorescence of artificial vinegar being a very weak bluish colour. The detection of admixtures is therefore not possible under the lamp unless a large proportion of artificial vinegar is present and thus greatly weakens that of the malt product. From what has been said in the foregoing notes on fluorescence analysis it is obvious that there is a large field of work for research chemists and a great scope for the use of the lamp in routine examinations. The great need at the moment is for a simple and inexpensive instrument for the evaluation of colours and intensities for as long as the present manner of describing colours and intensities subjectively continues, so the method will not be strictly scientific and confusion will increase. In a number of cases experience is needed before the results of an examination using the lamp can be correctly interpreted, but in other cases a wide experience is not essential. When an examination is to be made the worker should remain in the dark for at least five minutes before making an observation to allow the eye to accommodate itself to the darkness, for errors in colour values are very easily made if the worker comes straight into the darkroom and makes an examination at once. The results obtained by the lamp should be used with caution, due regard being paid to other physical and chemical data obtained. In the event of the results obtained by the use of the lamp not bearing out those obtained by chemical methods, they should be entirely disregarded seeing the present state of our knowledge of fluorescence analysis and, if time allows, a further investigation later made into the causes of the discrepancies. The lamp thus offers a valuable subsidiary method to the accepted standard methods in common use, but, except in rare cases, does not displace them.

Water!

A DROUGHT in this country in summer is not a frequent occurrence; a winter drought is rare, but many villages are having to cart their water from ponds at the present time. There is also to be a Government grant of £1,000,000 to improve rural water supply. It has often been said that medicine is only coloured water, so the question arises whether the present situation does not justify an increase in dispensing charges in order to keep faith with the public. Coloured water also forms the bulk of the contents of chemists' carboys, but it would be sad if through shortage of liquid more of these red and blue bottle emblems disappeared, particularly as for the uplift of the professional side of our calling there is a need for more "two and three bottle men."

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 21

THE volume of business done this week seems to have been rather better, but, of course, it has been mostly confined to spot orders. The general tone has been steady and, with no material alteration in exchange rates, conditions have been well maintained. In the pharmaceutical chemicals markets business has been fair and of routine character. Interest is directed on the position of some of the convention articles, as to whether they will continue to be controlled next year or become free markets. The free sale of crude iodine in the New Year is notified; particulars are given at the end of the trade report. As mentioned previously, the santonin group has broken up and prices are coming down, but it would not be surprising to see a new effort to control the market in the New Year. There has been a fair business in crude drugs this week. Some of the spices, including peppers, pimento and cloves are better markets. Menthol is stronger for shipment, but buyers are so far not attracted by the higher prices from Japan. Henna leaves are now very scarce and quoted nominal. Tragacanth has been quieter but continues firm; the same remarks apply to Jamaican honey. Shellac is again dearer and fully steady. Carnauba waxes are dearer forward. British cod-liver oil is quoted cheaper. The Advisory Committee give notice they are inquiring into the question of "foliage" duty on crude drugs in leaf, flower and root form. In the essential oils markets the chief feature is a sharp recovery in shipment prices for Java citronella, accompanied by a report from origin of an effort to control prices and production. Japanese peppermint is quoted dearer for shipment, with business of importance lacking, but shippers are maintaining their prices very steadily. Some of the American oils are easier. The demand for industrial chemicals has been quite good and prices for these products are keeping very steady. In fixed oils the general tone is not healthy and business has been quiet. Palm oils are steadier, while castor and ground nut are easier. American turpentine and linseed oil are about steady on quiet markets.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	December 21	Value of the £
Amsterdam ...	Fl. to £	12·107	8·18	13/5½
Berlin...	Mks. to £	20·43	13·76	13/5½
Brussels ...	Belgas to £	35	23·61	13/5½
Copenhagen ...	Kr. to £	18·159	22·40	24/8
Lisbon ...	Esc. to £	110	109½	10/11
Madrid ...	Ptas to £	25·22½	40½	31/10½
Milan ...	Lire to £	92·46	62½	13/5½
Montreal ...	Dol. to £	4·86½	5·07½	20/9½
New York ...	Dol. to £	nominal	5·08½	20/9½
Oslo ...	Kr. to £	18·159	19·90	21/11
Paris ...	Fr. to £	124·21	83½	13/5
Prague ...	Kr. to £	164·25	110	13/5½
Stockholm ...	Kr. to £	18·159	19·39	21/4½
Warsaw ...	Zloty to £	43·38	29	13/5
Zurich ...	Fr. to £	25·2215	16·95	13/5

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

THIS market has slackened off somewhat this week with the approach of the holidays. At the moment the tone is generally steady and there are but few price alterations to record.

ACETANILID.—Prices are about unchanged, with business quiet: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL.—A few small inquiries, with prices unchanged: 56 lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7-lb. tins.

AMIDOPYRIN.—Dealers' prices continue at the reduced scale recorded last week: crystals, 5 cwt., 11s. 8½d.; 2 cwt., 11s. 11½d.; less than 2 cwt., 12s. 2d. per lb., powder extra. Converted into sterling on an exchange of 84 francs they work

out as follows: 5 cwt., 17s. 3½d.; 2 cwt., 17s. 7½d.; less than 2 cwt., 17s. 11½d. per lb.

AMMONIUM ICHTHOSULPHONATE.—Market steady, business fair: one cwt., 1s. 6d. in 14-lb. tins; 1s. 7d. in 1-lb. tins; 1s. 10d. in 8-oz. tins; and 2s. per lb. in 4-oz. tins.

ASPIRIN.—A steady demand in good quantities with quoted prices maintained: home trade, ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d.; 28 lb., 2s. 11d.; 14 lb., 3s.; 7 lb., 3s. 2d. per lb. Exports to Colonies and British Possessions, ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d. per lb., f.o.b.; less than one cwt., 2s. 11d. per lb., ex works.

BISMUTH SALTS.—There has been no further movement in values since the recent advance. The current scales of prices are as follows:—

	Under 8 lbs.	8 lbs. and under 28 lbs.	28 lbs. and under 1 cwt.	1 cwt.
	per lb. s. d.	per lb. s. d.	per lb. s. d.	per lb. s. d.
Carbonate	9 8	8 5	7 11	7 8
Nitrate Crust. .. .	7 4	6 1	5 7	5 4
Citrate	12 3	11 0	10 6	10 3
Oxide	14 0	12 9	12 3	12 0
Oxychloride .. .	13 8	12 5	11 11	11 8
Salicylate 64% ..	10 7	9 4	8 10	8 7
Subgallate .. .	10 2	8 11	8 5	8 2
Subnitrate .. .	8 9	7 6	7 0	6 9

A rebate of 3d. per lb. allowed on sales of not less than 2 cwt. (either for prompt delivery or on contract) provided delivery is completed or paid for within three months. Liquor bismuth B.P., one w-qt., 1s. 1½d.; 6 w-qts., 11d.; 12 w-qts., 9½d.; 36 w-qts., 9d. per lb. Previous price alterations, September 1.

CAFFEINE.—Prices for Continental material are now steady, following the recent decline: pure, 250 lb., 6s. 2½d.; 100 lb., 6s. 4½d.; 50 lb., 6s. 6½d.; less than 50 lb., 6s. 9d. per lb. Citrate, 250 lb., 5s. 1½d.; 100 lb., 5s. 2½d.; 50 lb., 5s. 3½d.; less than 50 lb., 5s. 4½d. per lb., net, carriage paid. Packages from 5 lb. and upwards free.

CHLOROFORM.—Makers' prices for home trade are as follows: in drums, 2s. 3d. to 2s. 6d.; winchesters, 2s. 3½d. to 2s. 5½d.; 2-lb. bottles, 2s. 4½d. to 2s. 7½d.; 1-lb. bottles, 2s. 5½d. to 2s. 8½d.; 8-oz. bottles, 2s. 6½d. to 2s. 9½d.; 4-oz. bottles, 2s. 8½d. to 2s. 11d., for 10 cwt. down to 50-lb. lots; carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Makers' quoted prices for home trade is steady at 9½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting at competitive prices.

COUMARIN.—The market continues keenly competitive with cwt. lots at about 10s. per lb.

CREAM OF TARTAR.—The home trade price quoted by makers for 99 to 100 per cent. material is fully maintained at 80s. per cwt., less 2½ per cent. discount, nominal and without engagement. Dealers are offering at level prices.

CREOSOTE (B.P.).—Dealers quote quantities in 25-kilo. demi-johns at about 1s. 9½d. and smaller parcels in bottles up to 2s per lb.

CREOSOTE CARBONATE.—Market remains slack. Spot quoted in the region of 8s. 6d. per lb.

GUAIACOL CARBONATE.—Continental material to come forward is quoted as follows: two cwt., 9s. 10½d.; one cwt., 10s. 0½d.; less than one cwt., 10s. 2½d. per lb. Some spot offers are at cheaper figures.

HEXAMINE.—Cheap offers from the Continent are noted. British is quoted as follows: ten cwt., 1s. 9d.; five cwt., 1s. 9½d.; two cwt., 1s. 10d.; one cwt., 1s. 10½d.; 56 lb., 1s. 11d.; 28 lb., 1s. 11½d.; 14 lb., 2s.; 7 lb., 2s. 0½d. per lb. British rough powder is quoted from 1s. 5d. to 1s. 6½d. per lb., as to quantity.

HYDROQUINONE.—Inquiry has been slow; quotations unchanged with no figures available for next year: five cwt., 5s. 8½d.; two cwt., 5s. 9d.; one cwt., 5s. 9½d.; 56 lb., 5s. 10½d.; 28 lb., 6s.; 14 lb., 6s. 2d.; 7 lb., 6s. 6d. per lb., carriage paid.

IODIDES.—Important news regarding these salts is given at the end of the Trade Report (p. 772). Makers' scales of prices for these salts are as follows: Potassium iodide, B.P., one cwt., 8s. 3d.; 28 lb., 8s. 6d.; 14 lb., 9s.; 7 lb., 9s. 9d.; 4 lb., 10s.; smaller quantities, 10s. 3d. per lb. Sodium iodide B.P., 28 lb., 8s. 6d.; 14 lb., 9s.; 7 lb., 10s.; 4 lb., 10s. 3d.; smaller quantities, 10s. 6d. per lb. Iodine, resublimed, B.P., one cwt., 9s.; 28 lb., 9s. 3d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d.; 4 lb., 10s. 9d.; smaller quantities, 11s. per lb. Iodoform, B.P., cryst., precip., or powder, 28 lb., 10s. 9d.; 14 lb., 11s. 3d.; 7 lb., 12s. 9d.; 4 lb., 13s. 3d.; smaller quantities, 13s. 7d. per lb., carriage paid, 28-lb. containers free on orders or contracts of not less than one cwt. Rebates: Contracts of five cwt., ten cwt. or more, for delivery as required during a period of four months, subject to the following rebates on completion. Five cwt., pot. iodide, 3d.; other salts, 2d. per lb.; ten cwt., pot. iodide, 5d.; other salts, 3d. per lb. Resale is not allowed at prices below the scale current at the time of resale. All contracts are subject to reduction clause.

LACTIC ACID (B.P.).—A moderate inquiry with keen prices for bulk quantities: quantities in carboys, 1s. 4½d. to 1s. 5½d.; in winchesters and bottles, 1s. 6½d. to 1s. 9d. per lb., as to quantity.

METHYL SULPHONAL.—The market is keeping steady at former rates; Continental prices continue at the recent reduction, with buyers given the option of purchasing on the basis of gold in French francs or Swiss francs. Based on gold the scale is as follows: two cwt., 12s. 5½d.; one cwt., 12s. 10½d.; 56 lb., 13s. 3½d.; less than 56 lb., 13s. 8½d. per lb., ex warehouse, duty paid. Converted into sterling as follows: two cwt., 18s. 5d.; one cwt., 19s. 1d.; 56 lb., 19s. 8d.; less than 56 lb., 20s. 8d. per lb.

METOL.—Market is steady, but quiet: 56 lb., 9s. 6d.; 28 lb., 9s. 9d.; 7 lb., 10s. 9d. per lb., in 7-lb. tins, bottles extra. Wholesale distributors' prices for smaller quantities would be dearer.

PARAFORMALDEHYDE.—A small inquiry with the market steady: 100 per cent. powder, quantities in kegs, 1s. 3d.; smaller parcels up to 1s. 6d. per lb.

PHENACETIN.—Market is quiet with some cheap sellers: crystals, ten cwt., 4s. 1½d.; five cwt., 4s. 3d.; two cwt., 4s. 4½d.; 56 lb., 4s. 6d.; less than 56 lb., 4s. 9d. per lb., carriage paid on minimum cwt lots.

PHENAZONE.—The scale for Continental material is at the reduced figures notified last week: crystals, 5 cwt., 6s. 7½d.; 2 cwt., 6s. 9½d.; less than 2 cwt., 6s. 11d. per lb., powder extra. Converted into sterling on an exchange of 84 francs they work out as follows: 5 cwt., 9s. 9½d.; 2 cwt., 10s.; less than 2 cwt., 10s. 2½d. per lb.

PHENOLPHTHALEIN.—Market is dull with some sellers under Convention figures: two cwt., 4s. 7d.; one cwt., 4s. 8d.; 28 lb., 4s. 11d.; 14 lb., 5s. 2d.; 7 lb., 5s. 5d.; smaller parcels, up to 5s. 8d. per lb.

PHENYL ETHYL BARBITURIC.—Spot prices are still at cut prices with small parcels about 30s. per lb., and less for bulk quantities.

POTASSIUM PERMANGANATE (B.P.).—Dealers are doing a fair business in small parcels: quantities in two-cwt. drums, 9d. to 9½d.; druggists' parcels, 9½d. to 10d. per lb., as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—Spot prices are well under forward rates from the Continent: two cwt., 6s. 4½d.; one cwt., 6s. 6½d. per lb., ex wharf, duty paid.

PYROGALLIC ACID.—Market is steady but quiet: 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.

QUININE SALTS.—Convention prices for these salts are steady at former figures: sulphate, 1s. 11d.; bisulphate, 1s. 11d.; ethyl carbonate, 2s. 6d.; salicylate, 2s. 6½d.; phosphate, 2s. 11½d.; hydrochloride, 2s. 4½d.; bihydrochloride, 2s. 8d.; hydrobromide, 2s. 4½d.; bihydrobromide, 2s. 8d.; valerianate, 2s. 11½d.; hypophosphite, 3s. 2½d.; alkaloid, 2s. 8½d. per oz., carriage paid on bulk quantities.

SODIUM SALICYLATE (B.P.).—Market is dull and unsteady: home trade, powder, one ton, 2s. 0½d.; ten cwt., 2s. 1d.; five cwt., 2s. 2d.; one cwt., 2s. 3d.; 28 lb., 2s. 4d.; 14 lb., 2s. 6d.; 7 lb., 2s. 7d.; 1 lb., 2s. 8d. per lb., with crystals one penny per lb. extra.

SULPHONAL.—With exchanges about level on the week, prices in sterling are steady. Based on gold the scale is as follows: crystals, two cwt., 10s.; one cwt., 10s. 5d.; 56 lb., 10s. 7d.; less than 56 lb., 11s. 1d. per lb.; powder, 11d. gold per lb. extra, ex warehouse, duty paid. Converted into sterling on the French franc they work out as follows: crystals, two cwt., 14s. 9d.; one cwt., 15s. 5d.; 56 lb., 15s. 8d.; less than 56 lb., 16s. 5d. per lb.; powder, 2 cwt.,

15s.; one cwt., 15s. 7½d.; 56 lb., 15s. 10½d.; less than 56 lb., 16s. 7½d. per lb.

STRYCHNINE SALTS.—Makers' prices are as follows:—

	Under 16 ozs.	16 ozs.	35 ozs.
	Per oz. s. d.	Per oz. s. d.	Per oz. s. d.
Pure cryst. ...	2 7	2 5½	2 5
Pure precip. ...	2 6	2 4½	2 4
Arsenate ...	2 7	2 5½	2 5
Bisulphate ...	2 1	1 11½	1 11
Hydrochloride ...	2 4	2 2½	2 2
Hypophosphite ...	4 8	4 6½	4 6
Nitrate ...	2 2	2 0½	2 0
Phosphate ...	3 0	2 10½	2 10
Sulphate ...	2 3	2 1½	2 1

25-oz. tins free. Lower prices for contracts, with rise and fall clause.

TARTARIC ACID (B.P. CRYSTALS).—British material is quoted steadily at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices are competitive.

THEOBROMINE.—There is no further adjustment in prices for Continental material to record: pure, 250 lb., 6s. 2½d.; 100 lb., 6s. 4½d.; 50 lb., 6s. 6½d.; less than 50 lb., 6s. 9d. per lb. Sodium salicylate, 250 lb., 6s. 0½d.; 100 lb., 6s. 1½d.; 50 lb., 6s. 2½d.; less than 50 lb., 6s. 3½d. per lb. Packages from 5 lb. and upwards free.

Crude Drugs, etc.

The Advisory Committee are considering the application for crude drugs in leaf, root or flower form, to be exempted from liability to duty as "foliage, cut flowers and roots."

ACONITE ROOT.—Dealers are offering Napellus at 62s. 6d. and Japanese at 52s. 6d. per cwt., spot.

ARNICA FLOWERS.—Spot supplies of Montana flowers are quoted in the region of 10d. per lb.

BALSAMS.—Business has been of small account. *Tolu* is offering from 2s. 5d. to 2s. 6d. per lb., as to quantity.

BELLADONNA.—There is still a spot scarcity of good test root. Shipment offers are at about 57s. 6d. to 60s. per cwt., c.i.f., quality not stated. Leaves, 60s. per cwt., spot.

BUCHU.—The market has received a few bale orders, with previous rates ruling. Good green rounds, 10½d. to 11½d.; yellowish to fair, 8½d. to 9½d.; ovals, 7½d. to 8d. per lb. Exports from South Africa for the period January-September, 1933, totalled 164,528 lb., valued at Waarde 4,396, compared with 139,308 lb., valued at Waarde 2,871 for the same period of 1932.

BURDOCK ROOT.—Some few inquiries, with spot holders asking about 57s. 6d. per cwt. for small parcels.

CAMPHOR.—This market has been slack, quoted unchanged: spot, slabs, 2s. 2d.; flowers, 2s. 3d.; tablets, 2s. 5½d. per lb.; shipment, slabs, 1s. 10d.; flowers, 1s. 10½d.; tablets, 2s. 1½d. per lb., c.i.f. English refined is quoted unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz., and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CANTHARIDES.—Some small parcels of Russian flies are available at about 7s. 6d. per lb.

CASCARA SAGRADA.—Small spot parcels of 1933 peel are available at about 36s. 6d. per cwt.

CHAMOMILES.—Scarcity of supplies is the feature of this market, and prices continue firm and dear in the region of 260s. to 290s. per cwt., as to quality.

CELERY SEEDS.—This season's seeds are quoted from 152s. 6d. to 155s. per cwt.

CLOVES.—Values show some recovery and the market is now steady: Zanzibar, spot, 5½d.; shipment, January-March, 4½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended December 9 were 60 and the deliveries 16, leaving a stock of 3,306. From January 1 to date, landings of Zanzibar have been 6,548 and the deliveries 5,256. Landings of Madagascar for the week ended December 9 were nil, and the deliveries 15, leaving a stock of 986. Landings of Madagascar this year to date have been 108 and the deliveries 278.

COCOA BUTTER.—Quoted prices for prime English are unchanged at 8½d. to 9½d. per lb., as to quantity.

COCONUT (DESICCATED).—Business is still rather slow. Spot, fine, 14s. 9d.; medium, 14s. 6d.; shipment, halves, December-January, 13s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—There has not been much doing on the Norwegian shipment market with the quotation for finest Lofoten steam refined non-freezing medicinal oil steady at about 95s. per barrel, c.i.f. Spot, in small lots, 135s. per

barrel, ex wharf, duty paid. Newfoundland finest non-freezing medicinal oil, 132s. 6d. per barrel, ex store. British oil, non-freezing, finest medicinal quality is now being quoted at the cheaper price of 115s. per barrel, c.i.f., London.

COLCHICUM.—Supplies of seed are offering on spot at about 1s. 6d. per lb.

DAMIANA LEAVES.—Dealers are quoting spot leaves at about 1s. 1d. per lb.

DANDELION ROOT.—Foreign root is quoted dearer on spot in the region of 65s. per cwt.

ERGOT.—This market continues fully steady. Russian is not available. Portuguese, 1s. 9d.; Spanish, 1s. 9½d. per lb., spot, for small parcels.

GELATIN.—Dealers' prices are steady and an average business is being done: German, gold leaf, 2s. 4d.; silver leaf, 2s. 2d.; bronze leaf, 1s. 10d.; plain label, 1s. 8½d. French, gold leaf, 1s. 10d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 6½d. per lb., in cwt. cases.

GINGER.—West African has been dull and is slightly easier, with spot at 19s., and to arrive at 16s. per cwt., c.i.f.

GUM ACACIA.—Market remains dull and prices are a matter of negotiation.

HENNA LEAVES.—There is an acute scarcity here and prices are mostly nominal. One or two lots offering of very ordinary quality are firmly held for high figures.

HONEY.—Spot holders of Jamaican are keeping their prices quite steady, business quiet. Pale set amber, 50s.; dark amber, about 42s.; dark liquid manufacturing, about 40s. per cwt. Supplies are limited and in strong hands.

HYDRASTIS.—Spot supplies are quoted in the region of 4s. 6d. per lb.; shipment is nominal at about 4s. per lb.

IPECACUANHA.—Supplies of Matto Grosso are moving slowly, with prices about 4s. 4½d. to 4s. 6d. per lb., as to quantity. Minas, about 4s.

LYCOPodium.—Dealers are quoting spot at about 2s. 9d. per kilo.

MANNA.—Spot supplies of selected flake in 1-lb. tins quoted at about 5s. per lb.

MENTHOL.—There is a better tone in the shipment market and higher prices are being asked; business, however, is not in evidence in any quantity, and it seems that buyers have other ideas of the market: K/S brands, spot, 9s. 6d.; shipment, January-March, 7s. 10d.; March-April, 7s. 10d. per lb., c.i.f.

MERCURY.—The market has been subdued all the week. Spanish-Italian, spot, £9 10s. to £9 14s. per bottle; shipment, on the basis of £9 5s. per bottle, f.o.b. Continent.

OPIMUM.—The market continues firm. Shipment is nominal and fully 1s. 1d., c.i.f., with spot not less than 1s. 2d. per unit, landed and duty paid.

PEPPER.—The tone is much better this week, and at the higher prices now quoted the market is very steady. Lampong, spot, 4½d.; shipment, January-March, 4d.; March-May, 4½d., c.i.f. Tellicherry, spot, 5d.; shipment, January-March, 40s. 6d.; Aleppo, spot, 4½d.; shipment, January-March, 39s., c.i.f. White Muntok, spot, 6½d.; shipment, January-March, 6½d.; March-May, 6½d., c.i.f., sold.

PIMENTO.—Prices show a further recovery and the market is firm. Spot, 3d.; shipment, January-March, 27s. 6d. per cwt., c.i.f.

QUASSIA CHIPS.—Dealers are quoting spot supplies at about 20s. per cwt.

QUILLAIA BARK.—Some whole bark is mentioned at 21s. and crushed at about 29s. per cwt., spot.

RUBBER.—Values are fractionally cheaper on the week; business fair, market steady. Standard ribbed smoked sheet, spot, 43½d.; January, 4½d.; February, 4½d.; March, 4½d.; April-June, 43½d.; July-September, 43½d.; October-December, 43½d. per lb.

SAFFRON.—Market is steady at the recent reductions, business fair: spot, prime B.P., 50s. 6d.; extra B.P., 49s. 6d.; super B.P., 46s. 6d. per lb., and slightly less for bulk quantities.

SARSAPARILLA.—Market is steady, occasional business: spot, native mixed colours, 1s. 1d. to 1s. 2d.; grey Jamaican, 1s. 9d. to 1s. 10d. per lb., as to quantity.

SEEDS.—ANISE.—Spot, Spanish has jumped to 60s. for prime quality. Bulgarian, 42s. 6d.; and Turkish, 40s. CORIANDER.—1933 crop, Morocco, on spot, has been sold at 15s. 6d., duty paid. The shipment price is higher, 13s., c.i.f., now quoted. Wormy, 14s. 6d. CUMIN.—A parcel of Malta is expected to arrive in about a week's time. The price asked is 60s., spot. Morocco, on spot, has been sold at 55s., duty paid. The c.i.f. price is 52s. CARAWAY.—Market quiet. Dutch, on spot, now offering at 49s., duty paid. FENUGREEK.—Morocco, unchanged

at 13s., duty paid. LINSEED.—Market quiet. Morocco, 21s. 6d.; Persian, 16s. 6d.; and Bombay offering at 14s. 6d. MUSTARD.—English, 21s. to 30s., according to quality.

SENEGA.—If anything, the market is a point cheaper, with spot about 1s. 5d. and shipment at 1s. 4d. per lb., c.i.f., nominal.

SENNA.—Business continues rather quiet, with prices for good green leaves fully steady at recent rates. A little more demand for Tinnevely pods, with a fair inquiry for Alexandrian pods for delivery in the New Year. The present time would appear to be a favourable opportunity to cover requirements of all grades of senna for the next few months, as it is felt that prices have reached a level at which purchases should prove profitable.

SHELLAC.—With values showing some further appreciation on a firm market business has been satisfactory. Spot, standard TN orange, 76s. to 81s.; fine orange, 85s. to 120s.; pure button, 85s. to 90s. per cwt. For delivery, TN, December, 77s. 6d.; March, 80s. 6d.; May, 80s. 6d. For arrival, TN, January-February, 74s. per cwt., c.i.f.

SQUILL.—Limited supplies of fair white are well held at 35s. per cwt.

TRAGACANTH.—The market has been quieter this week, but a good revival in demand is anticipated, and, with stocks at a very low level and arrivals continuing unusually small, rather higher prices are looked for.

VALERIAN ROOT.—Dealers are quoting spot root in the region of 55s. per cwt.

WAX (VARIOUS).—A steady inquiry for fatty grey carnauba. Shipment markets tend firmer. CARNAUBA, fatty grey and chalky grey, 75s., duty paid; 68s. in bond; shipment, December-January and January-February, 66s., c.i.f. Primeira, limited offerings on spot at 160s., duty paid; 135s. afloat, and for January-February shipment, 125s., c.i.f. Mediana, spot supplies limited; quoted at 150s., duty paid, 130s. afloat and 117s. 6d., c.i.f., January-February shipment. BEES', Dar-es-Salaam, 92s. 6d., ex store; shippers reserved, quoting 87s. 6d., c.i.f. Abyssinian, spot, 92s. 6d.; 82s., c.i.f. Benguella, 92s. 6d., duty paid, and 83s., c.i.f.

Essential Oils, etc.

THE chief features of the market this week are a sharp recovery in Java citronella for shipment and stronger quotations from Japan for peppermint oil. Business generally has been restricted to small spot orders. Lemongrass tends to harden for shipment.

ALMOND.—Business is slow, market steady. Foreign, cwt. lots, 2s. 4d.; smaller parcels, up to 2s. 7d. per lb. English, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb.

ANISE (STAR).—Market is steady as quoted, business rather small: spot, "Red ship," in leads, 1s. 10½d.; in tins, 1s. 8½d.; in drums, 1s. 7½d.; shipment, in leads, 1s. 8d.; in tins, 1s. 6½d.; in drums, 1s. 6d. per lb., c.i.f.

BAY.—Some few small spot orders. Quoted from 6s. 2d. to 7s. per lb., as to percentage.

BERGAMOT.—Business in the shipment market is slow and the quotation for new crop is easier at 5s. 9d. per lb., c.i.f., with old oil cheaper. Spot lots from 6s. to 6s. 3d. per lb., as to brand and quantity.

BOIS DE ROSE.—Very little business moving with Brazilian quoted at about 4s. 9d. per lb. Shipment offers are restricted and firm.

CAJUPUT.—Some few small orders noted. Spot, B.P. 1932 quality, 2s. 1d. to 2s. 2d.; green, 1s. 10d. to 2s. per lb., as to quantity.

CANANGA.—Shipment is rather steadier, close up to 6s. 6d. per lb., c.i.f.; spot is in the region of 8s. per lb., as to quantity.

CARAWAY.—Dealers are offering Continental on spot at about 9s. to 9s. 6d. per lb., as to quantity.

CASSIA.—Continues steady and short on spot at 3s. 8d. to 3s. 8½d.; shipment, in drums, 3s.; in leads, 3s. 1½d. per lb., c.i.f.

CEDARWOOD.—Business has been rather quieter. Colonial, 1s. 5d. in drums and 1s. 7d. per lb. in tins, spot. American continues nominal for shipment and irregular on spot: in drums, 1s. 6d. per lb., less for bulk quantities.

CINNAMON LEAF.—Prices quoted are keeping steady in the region of 2s. 8d. to 2s. 10d. per lb. for Ceylon oil, but the market is dull.

CITRONELLA.—There has been a sudden jump in the shipment market for Java oil, due, it is reported, to efforts at origin to restrict output and control prices in the future. Offers are now fully 1s. 6d. per lb., c.i.f. and spot in small parcels, about 1s. 10½d. to 2s. per lb. Ceylon oil is keeping steady and may move up with the Java product. Spot, in

small parcels, about 1s. 8d.; shipment, about 1s. 3½d. per lb., c.i.f.

CLOVE.—A few inquiries with quotations keen. Spot, Madagascar, about 3s. 3d.; shipment, about 2s. 7d. per lb., c.i.f.

EUCALYPTUS.—Values for the Colonial product are very steady and business is sustained. Australian, 70 to 75 per cent., 1s. to 1s. 1d.; 80 to 85 per cent., 1s. 1d. to 1s. 1½d. per lb., landed. Spanish, 70 to 75 per cent., 1s. 2d. per lb.

GERANIUM.—This market has been neglected for some time. Bourbon for shipment is again slightly easier at about 19s. 6d. per lb., c.i.f. Spot, for good oil, about 22s. 6d. per lb. Algerian is firm and scarce for shipment at 23s. 6d. per lb., c.i.f.

GINGERGRASS.—Market remains slack. Spot, about 5s. 2d. to 5s. 4½d.; shipment, about 4s. 4½d. per lb., c.i.f.

JUNIPER BERRY.—Inquiry is small; quoted unchanged. Spot, 3s. 2d. to 3s. 4d. per lb., as to quantity.

LEMON.—Interest in the Sicilian product is poor. New crop, hand-pressed, about 4s., c.i.f., and machine made, 3s. 4d., c.i.f. Spot business is slow and of small size, with prices varying as to quality. Californian has sold now and again with large drums at 48 cents and small drums 49 cents per lb.

LEMONGRASS.—Shipment market is firm and tends to advance on account of limited supplies. Spot, 3s. 11d. to 4s., and shipment, 3s. 8½d. per lb., c.i.f.

LIME.—Very little inquiry at the moment. West Indian distilled for shipment, 28s., c.i.f.; small spot parcels, 30s. 6d. per lb.

MANDARIN.—Some few small spot orders reported. Spot, from 15s. to 16s. 6d., as to quality, and shipment from 14s. 6d. up to 16s. per lb., c.i.f. for the finest oil.

NUTMEG.—Occasional small business has been done on spot. American, about 5s. 4d.; English, about 6s.; Continental, about 5s. 4d. per lb. for fair quantities.

ORANGE.—Except for the French Guinea oil and, to some limited extent, the Californian product, this market has been neglected. Sicilian sweet, new crop, from 5s. 4d., c.i.f.; bitter, 4s. 2d. to 4s. 3d., c.i.f. French Guinea is about 2s. 1d., c.i.f., and slightly less for large bulk lots. Californian, spot, one case, 61 cents; two or more cases, 56 cents per lb.

PALMAROSA.—A very poor market, with prices at low levels. Spot, about 6s. 3d. to 6s. 4d.; shipment, about 5s. 7½d. per lb., c.i.f.

PATCHOULI.—Rather steadier, but the market remains dull. Spot, 6s. 4d. to 6s. 6d.; shipment, about 6s. per lb., c.i.f.

PEPPERMINT.—The shipment market is definitely dearer and the tone much steadier, but buyers are not inclined to meet the advance. Spot, 3s. 3d. per lb.; shipment, January-March, 2s. 9d.; March-April, 2s. 9d. per lb., c.i.f. There may be resellers at something less. The American natural oil is fully maintained at 2 dollars 55 cents per lb., c.i.f., with some limited business reported.

PETITGRAIN.—While the shipment market continues firm in the region of 4s. 3d., c.i.f., spot is quoted at about 4s. 8d. per lb., but there would be profit-takers at less, but business is lacking.

SPEARMINT.—The spot market is dull and rather easier at about 6s. to 6s. 3d. per lb.; shipment nominal.

SPIKE.—The best quality Spanish new crop oil is very steady for shipment at about 4s. 8d. per lb., spot.

WORMSEED.—Isolated cheap sales are reported, but general quotations are unchanged; spot, 9s. 9d. to 10s.; shipment, nominal at about 8s. 7½d. per lb., c.i.f.

Fixed Oils, etc.

BUSINESS in these products has been restricted this week and values are barely maintained. Palm oils are steadier. Groundnut and castor oils are quoted cheaper. **ACID OILS.**—Groundnut has been in demand and is dearer; others are dull and rather easier: coconut and/or palm kernel, 16s. 3d.; groundnut, 16s. 6d.; soya, 15s., spot. **CASTOR.**—Values for all grades are cheaper, business quiet: pharmaceutical, 38s. 6d.; first pressings, 33s. 6d.; second pressings, 30s. 6d. (barrels); cases, £4 per ton extra, ex mills, Hull, in not less than one-ton lots; Bombay, 23s. 3d. (drums), c.i.f.; Madras, 23s. 3d. (drums), c.i.f. **COCONUT.**—Prices are barely maintained with business slack; deodorised, 25s. 1½d. (barrels), spot; Ceylon, 14s. 6d. (drums), c.i.f. **COTTON.**—Business has been limited with values about maintained; deodorised, 20s. 9d.; common edible, 19s. 3d.; soapmaking, 18s. 6d.; crude, 16s. 6d. (barrels), spot. **GROUNDNUT.**—Market is easier and dull; deodorised, 26s. 9d. (barrels), spot; crude Oriental, 20s. 3d. (drums), c.i.f. **LINSEED (RAW, NAKED).**—Quoted values are about level on the week, market mostly dull: on spot, 20s. 9d.; January, 19s. 1½d.;

January-April, 19s. 1½d.; May-August, 19s. 4½d. Boiled oil, spot, 22s. 9d. **OLIVE.**—A limited business is reported with quoted prices about steady: edible, in tins in cases, 70s. per case of ten gallons; B.P., 4s. 6d. per gallon, in 40-gallon barrels. **PALM.**—The market is steadier this week at slightly better prices; business has also been a little better: Lagos, 15s., shipment, nominal; softs, 13s. 1½d., spot; mediums, 13s. 9d. shipment; hards, 14s. 3d. shipment; bleached, 16s. 6d., spot. **PALM KERNEL.**—The market is slightly easier and business is slow: deodorised, 27s. 1½d.; crude, 18s. 3d., spot. **RAPE.**—Business has been of small account. Refined, 29s. 9d.; crude, 28s. 6d., spot. **RESIN.**—Market has been dull and is rather unsteady: B, 12s.; D, 12s. 3d.; F/G, 12s. 6d.; N, 13s. 9d.; W/G, 14s.; W/W, 14s. 9d. per cwt., ex wharf. **SOYA.**—Market is rather cheaper and business is quiet: deodorised, 24s.; crude, 19s. 6d. spot. **TURPENTINE, AMERICAN.**—Market has been slack all the week. Total London stocks, 16,851 barrels. On spot, 42s. 6d. **WOOD.**—Hankow in barrels is quoted at about 46s. 6d. spot.

Iodine

A DEVELOPMENT of general interest to the pharmaceutical trade has taken place in the iodine market recently. Ever since 1888 there has existed an agreement in Europe between the Chilean and associated crude iodine producers on the one hand, and a group of chemical manufacturers on the other, giving the latter the sole right to manufacture iodine salts from Chilean crude iodine. These preparations represent about 97½ per cent. of the sales of crude iodine. The agreement referred to has been terminated as from January 1, 1934, and from that date, we are informed, free selling of iodine will be adopted. While this new position may in due course necessitate some adjustment of prices for iodine salts, it is understood that the manufacturers who have composed the Iodine Preparations Combination in this country are very likely to continue to work in close touch with one another and will, if the necessity arises, meet any developments in the market.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1933, p. 329.

(From "The Trade Marks Journal," December 13, 1933)

- "HIBUILD"; for chemicals (1). By Nobel Chemical Finishes, Ltd., Imperial Chemical House, Millbank, London, S.W.1. 545,364.
 - "SULFIGRAN"; for all goods (1 and 4). By I. G. Farbenindustrie A.G., Grüneburgplatz, Frankfurt-on-the-Main, 20, Germany. 545,858/859. (Associated.)
 - "FORMETTES" and "BILULETTES"; for medicinal chemicals (2). By G. Staley, The Grove, Nottingham. 539,821; 543,305.
 - "PENTIDE"; for a nuclein derivative for use as an injection (3). By Allen & Hanburys, Ltd., Plough Court, 37 Lombard Street, London, E.C.3. 545,330.
 - "GOL-VOX"; for medicated confectionery (3). By E. C. Woodham, 5-9 Old Street, London, E.C.1. 545,966.
 - "DETAVID"; for medicinal substances, excluding soap (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 545,558.
 - "HALIEL"; for medicinal chemicals (3). By Co-operative Wholesale Society, Ltd., 1 Balloon Street, Manchester. 545,614.
 - "DENTAGLOW"; for preparations for cleaning artificial dentures (48). By The Exeter Dental Laboratory, Ltd., 24 East Southernhay, Exeter. 543,582.
 - "LIFEBUOY TOILET SOAP" on oblong shape; for toilet soap (48). By Lever Brothers, Ltd., Port Sunlight, Cheshire. 545,400. (Associated.)
 - "NUTRESSA"; for a preparation for the hair (48). By Fermatint Manufacturing Co., Ltd., 1A Wood Street, Cheapside, London, E.C.2. 544,589.
- Circular design of lady with puff and mirror, attended by maid; for perfumery, etc. (48). By R. Hudnut, Ltd., 302 Gray's Inn Road, London, W.C.1. 545,852.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

P.A.T.A. Council Election

SIR,—May I through your courtesy, be allowed to thank all those who voted for me at the recent P.A.T.A. Council election? Needless to say, I am very pleased to have received this vote of confidence. The work of the P.A.T.A. has of recent years been very difficult. Only those who have had knowledge of the inner workings can realise just how difficult it has been. Powerful interests opposed to the P.A.T.A. have done their best to hamper our work, but the P.A.T.A. and the principles for which that Association stands have won through, and we are to-day in a stronger position than we have been for many years. It will be my pleasure to continue to serve on the Council of this Association which has done so much to benefit the chemists in retail business.—Yours faithfully,
Ealing Green, W.5.

THOMAS MARNS.

Free Gifts with a Difference

SIR,—Much has been said recently about making chemists the distributors of free gifts. I think the latest Vick scheme, however, to be much worse. They first distribute samples of their Vapour Rub and then enclose a note telling people to apply at their chemists for a sample of their lozenges. Surely it is much better to make a sale and give something away, as Tokalon or Erasmic are doing, than to have people marching into the shop and demanding free samples as if they were fully entitled to them. I wonder what the opinion of other chemists is? All those that I have spoken to regard it as another nuisance which could easily be avoided. . . .—Yours faithfully,
London, S.W.1.

J. M. PEARSON.

Christmas in the 'Eighties

SIR,—Here in Sunny Jersey, the place with highest sunshine record in the British Isles, we have four degrees of frost and a biting, screeching north-east wind, blowing more than half a gale. My memory recalls a similar Christmastide during the days of my apprenticeship in the then country town of Mansfield. The reservoir, a sheet of water about a mile long and nearly half a mile broad, was frozen for some weeks, the thickness of ice being more than a foot. Booths were erected on the ice, and young and old flocked from the towns and villages around, almost as large a concourse of folk as crowded the Market Place at Mansfield Fair in July. Skating, sliding, hockey, and curling were in full swing, and to crown all on that Christmas day a farmer's four-wheeled wain, drawn by four heavy carthorses, was driven across the frozen reservoir. So enthusiastic were we that, not content with spending the evening on moonlight nights, after our day's work, we apprentices would tramp the mile and a half to the reservoir before six o'clock in the morning to indulge in an hour's skating before going to work. On Christmas morning, 1885, I awoke "alone in London." I was roused by the rumbling of an Inner Circle steam train, passing beneath the building at the corner of Finsbury Circus and Moorgate Street. It was a four-story, brick building in those days. The ground floor and basement were occupied by a firm of German chemists; the first and second floors were let as offices; and the top floor consisted of one room as a lawyer's chambers, a storeroom for drugs and chemicals, and the room in which I lay, trying to realise that it was really Christmas morning. The room was comfortably furnished in duplicate, there being two assistants who boarded out but slept on the premises. My fellow assistant, a German, had a complete set of Dickens's works in English. He had gone to spend Christmas at his home in Dresden. The hours on duty were the same as Sunday, from 10 a.m. to 1 p.m. I remember only one prescription I dispensed that morning, and also the Sunday my colleague was

away. It was a 10-oz. or 12-oz. bottle of nutrient enema. The remainder of that Christmas day was spent at the house of an uncle and aunt at Hampstead with their family of ten. I wish all who read this as joyous a Christmas in 1933.—Yours, etc.,
Jersey.

CHAS. E. DODSLEY.

Deductions from Insurance Accounts

SIR,—“Rebel” (*C. & D.*, December 16, p. 745) is to be sympathised with on the fact that he only receives 1s. 7d. profit on 1,200 units of insulin costing 18s. He is to be congratulated, however, on the fact that he is not a panel chemist in the London area, or his profit would be about 50 per cent. less than he receives in Scotland. I too had recently a panel prescription for 1,200 units of insulin, for which I receive 18s. (net cost) plus a dispensing fee of 1s. This dispensing fee is subject to a 10 per cent. economy cut, plus another 5 per cent. discounting clause cut and a further small deduction for the Pharmaceutical Committee expenses, bringing the gross profit on 19s. turnover to 10d.—another injustice to England. There is one comforting reflection for “Rebel” and myself. Pharmacy must after all really be a profession; no silly ass would call it a business.—Yours, etc.,
London, S.W.17.

J. E. MONAGHAN.

SIR,—The drug trade is in a queer state, and it is comforting to know of another “rebel”; whether he is one from conviction or compulsion matters little. The curse of the trade to-day is the Pharmaceutical Society. It is nothing more nor less than a deluded puppet of the medical profession. The medicine of modern science is good homes, good clothes, good food, good sanitation, good education, good wages, good and sound healthy constitutions of parents, so that the young will get a good start in life. If this is what a civilised community aims at, then I see no future for the retail chemist or the Pharmaceutical Society. The insurance committees throughout the country aim at eliminating medicine to the detriment of the chemist and the insured. It has always been a cause of wonder to me that the insured person and the chemist should put most into the N.H.I. and they get the least out of it. Is it not appalling to think that the insured should only get about 1s. 10½d. or 2s. in medicine and surgical appliances when he invests pounds in it? Let us compare the club system. The unemployed pay 6d. per week or 26s. per year for medicine and attendance; 6s. of this sum goes to the collector. If he collects for four doctors, each with 240 on his list, he gets £6 per week; two girls will do this work for 10s. a week. A modern economical doctor with a calomel, grey or Dover's powder and a coloured aspirin tablet (with one or two free physicians' samples), and with the art of palming the chronic cases on some charitable institution or another doctor, can dispense dependents' medicine under 6d. per person.—I am, etc.,

ACRIFLAVINE (20/12).

Irish Free State Registered Druggists

SIR,—I ask leave again to trespass on your valuable space. It is a pity that Mr. O'Rourke should find it necessary to indulge in personalities. However, it was not necessary to call on my imagination when stating the facts contained in my letter. I stated “that the candidate for the Registered Druggist is examined as to the mode of preparation; the drugs contained in the preparation, the dose, if any, of the preparations contained in the B.P.” Mr. O'Rourke states that this statement grossly exaggerates the educational requirements of candidates for the R.D. examination. If Mr. O'Rourke will refer to p. 39 of the Calendar of the Pharmaceutical Society for the year 1925 (the oldest I happen to possess), he will find a copy of an examination paper for the R.D.

examination, on which the following questions are asked:—

(3) Give the dose, strength of active ingredient and composition of the following:—P. ipecac. co., liq. morph. hyd., pil. saponis co., tr. nucis vom.

(4) How does the B.P. direct the following preparations to be made:—Atropine ointment, lime water, simple syrup, mucilage of tragacanth, Scott's dressing?

(5) Name the preparations of arsenic, and give the strength and dose of each.

Then again, the latest examination paper in my possession, dated July 1933, asks the following questions:—

(1) Classify according to the Poisons Laws and state fully the conditions governing the sale of liq. strychninae, tr. opii, etc.

(2) State briefly what you know of each of the following, giving dose, if any:—Strychnine, iodine, opium, etc.

(3) Give composition and dose, if any, of each of the following:—Troch. acid. carbol., Plummer's pill, mercury, etc.

Now either the R.D. candidate is expected to be able to answer these questions or, failing this, the questions should never have been put, and every candidate who failed at the numerous examinations at which such questions were put is entitled to a refund of £4 4s. Mr. O'Rourke is grossly inaccurate when he states: "I submit that it would be more correct to state that legally he may not be prevented from doing certain things, and that the wholesaler is taking an advantage of a legal loophole, rather than exercising a legal right." Is he aware that the wholesaler, whether controlled by a pharmaceutical chemist or registered druggist, is supplied, after strict investigation, with a licence to deal in the drugs referred to, on payment of the necessary fee? . . . Somewhat the same procedure is gone through to comply with the recent Dangerous Drugs Bill, which has now passed through the Dail and upholds the legal rights of the registered druggist, and has not embraced the motion referred to, which probably found its way to the w.p.b. if indeed it was ever forwarded to the Minister. The letter Mr. Kerr refers to was written to me in the course of a personal correspondence some two months before I became a member of the Registered Druggists' Association, but as it reached me in an open envelope, bearing a halfpenny stamp (I have been a prompt paying associate since 1923), perhaps it was meant "for all whom it may concern."—Yours faithfully,

G. DARLINGTON.

Sutton, co. Dublin.

A Medical Menace

SIR,—“Clarion” (C. & D., December 16, p. 745) seizes the point at issue to which attention was called in your editorial of December 9. Quietly but insistently medical men have been organising these public medical service proposals. It should be noted that “pharmaceutical service” is never mentioned, but it is a key of the public health service. The whole thing is a distinct throw-back. Chemists in the retail with whom I have spoken on the subject are woefully ignorant of what is taking place; officially nothing seems to be done. A few active spirits want to know why these things take place, and they only receive such answers as “We are keeping a watching brief.” But the fact is the thing will soon be established and there will be nothing to watch. Chemists stand to lose, and surely the least they can ask from the National Pharmaceutical Union is “Where do chemists come in?”—I am, etc.,

PREPARATOR (18/12).

A Book-keeping Problem

SIR,—The following may help “The Working Partner” (C. & D., December 9, p. 715) as to number of staff for the stated business. I have had considerable experience in the North, and consider a manager (or a qualified assistant or partner) and porter, with a girl book-keeper who would help with packing of own specialities, amply sufficient for the work specified; this would necessitate working all the time with no time left for discussing the affairs of State. In the South, for the same amount of work, one would find engaged an extra dispenser and counterhand; in my opinion all businesses in the South are much overstaffed.—Yours, etc.,

S. (12/12).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. M. G. (14/11).—JAUNDICE IN DOGS.—Yellows or jaundice in dogs can be of several types, and a correct diagnosis must be made before treatment can be properly applied. Jaundice caused by the leptospira which sometimes affects dogs kept together in numbers is a very serious disease and not many recover. It certainly is not to be taken lightly and requires the best attention. Even the less serious catarrhal form needs something more than the indiscriminate use of drugs. Trypan blue has been used for leptospiral jaundice in dogs with varying success. It is administered subcutaneously or intravenously, the latter being preferable, but it can only be of value in the hands of a skilled person. Its rule-of-thumb administration is to be deprecated.

Banstead (18/18).—SLUG PEST.—Where the blades of the young plants show injury typical of slugs, the best remedy is to broadcast at night, when the weather is mild, a mixture of copper sulphate (6 lb.) and kainit (1 cwt.), using the mixture at the rate of 3 cwt. per acre. This treatment has been applied to wheat and other farm crops—e.g., oats, peas and sugar beet, without causing serious harm to the plants, and it has also been used under garden conditions, but in these circumstances users are advised to proceed with caution as garden plants may be seriously injured.

P. G. D. (28/11).—PAINT REMOVERS.—Formulas for paint removers are as follows:—

I		II	
Strong solution of ammonia	60 c.c.	Potassium hydroxide	500 gm.
Liquid paraffin	120 c.c.	Acetone	1,000 c.c.
Soft soap	375 gm.	Methylated spirit,	
Soda ash	500 gm.	Oil of turpentine,	
Lime water	2,000 c.c.	Benzin of each	500 c.c.
		Castor oil	300 c.c.
III			
Paraffin wax	...	...	1½ lb.
Rosin	...	...	1½ lb.
Acetone	...	...	2 pints
Amyl acetate	...	...	4 oz.
Carbon disulphide	...	...	1 pint
Mineral naphtha	...	...	1 gall.
Denatured alcohol	...	...	1 gall.

Melt the wax, stir in the naphtha gradually: dissolve the rosin in the alcohol and add the other ingredients. Mix the two solutions. Apply by spreading thinly over the old paint. After a few minutes make a second application, when the softened paint can be easily removed with a blunt spatula.

Retrospect of Fifty Years Ago

Reprinted from

“The Chemist and Druggist,” December 15, 1883

The Pharmacy Bill of 1883

This Bill was sent in in February, and was then submitted to the trade. None but the members of the Pharmaceutical Council had any opportunity of discussing the proposed amendments of the law, and it cannot be said that the proposals submitted were entirely satisfactory. The Council had aimed to take advantage of their opportunity to modify the conditions of membership of the Society in such a manner as to gain certain advantages. . . . The Bill sent in to the Privy Council was therefore weighted with some eight or ten clauses intended to effect these purposes. . . . In the early days of the parliamentary session Mr. Mundella informed the House of Commons that it was the intention of the Government to introduce a Bill for the further regulation of the sale of poisons.

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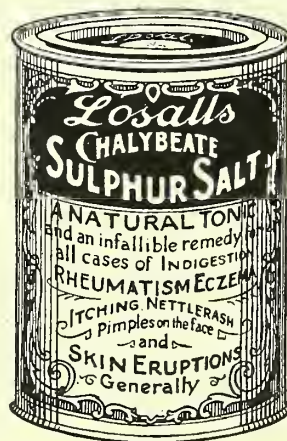
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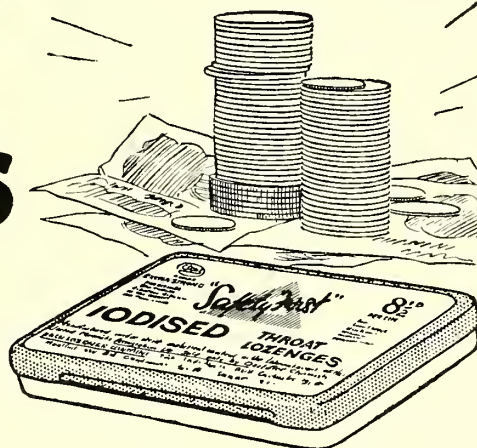


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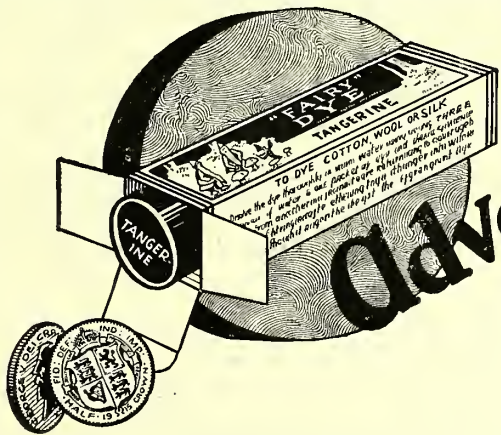
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You are sure of repeat orders by selling the “LOCARNO”

Contains 650 sheets of pure white Sulphite Paper.
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Free Sample Roll on application
Each Roll 12 oz.

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Pharmal

HOT WATER BOTTLES

For Easy Filling and Easy Sales



FIXED RETAIL
PRICE

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EACH

NON-SPILL STOPPER

EASY FILL NECK

None of the petty annoyances of Hot Water Bottles—leakages or upsets when filling—can occur with a Pharmal Hot Water Bottle. That is why the sales of the Pharmal have been increasing steadily for the past three years.

The Pharmal has a specially shaped opening which ensures that every drop of water flows quickly and easily into the bottle, while the neck is let into the rubber in such a way that water cannot possibly leak out.

These features, together with a guarantee against defective materials or workmanship, make the Pharmal an easy seller, which brings quick profit without complaints.

In red, green, blue, blue and green marble, and jazz.

Obtainable through all the leading wholesale houses.

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LEYLAND, LANCs.

London Office: GRAND BUILDINGS, TRAFALGAR SQ., LONDON, W.C.2.

J. C. & S

[36/28]

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

DECEMBER 23,
1933

28 ESSEX STREET, LONDON, W.C. 2

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for **DISPOSAL, PREMISES TO LET** and **FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS FOR SALE** and **AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS OPEN—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

LEGAL NOTICES, TENDERS, AUCTIONS, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column). (Box No., 1/- extra.)

MISCELLANEOUS (Wholesalers' Section) for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)

EXCHANGE COLUMN (for Retailers, etc.)—Twopence per word, minimum 2/- (Box No., 1/- extra.)

THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2
Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Estrand, London."

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must reach us
not later than

FIRST POST THURSDAY MORNING

All advertisements intended for
insertion in this Supplement

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ESTABLISHED 1846

Telephone No.: CITY 2283
May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—CAMDEN TOWN (NEAR).—Main Road Cash Retail Business, situate in excellent position; large Panel; returns average £2,500 per annum under management; scope; two flats over shop; premises held on lease at £110 per annum; genuine reason for disposal; Vendor is desirous of selling and will meet a purchaser equitably.

2.—SUSSEX (PLEASANT COUNTRY TOWN NOT FAR FROM COAST).—Family Retail Business; net profit last year £340; stock and fixtures worth £500; rent £65; long lease; excellent house available at low rent; price of business £800 all at, or valuation terms entertained.

3.—SOUTHERN CITY.—Light Family Retail Business, showing increasing turnover; net profit exceeds £420; attractive shop, nicely fitted and fully stocked; rent £60; held on lease; good living accommodation available if required; price £350, plus stock and fixtures at valuation, in all £1,000 to £1,100.

4.—SHROPSHIRE.—Good Class Retail Business; established over 120 years; returns approach £2,100; net profit £484; large double-fronted shop in excellent position, which is improving; flat over sublet at £72 per annum, tenant paying rates; Vendor wishes to sell the property, but may consider granting a lease; price of business, about one year's net profit for goodwill, plus stock and fixtures at valuation; stock worth about £600.

5.—MIDLANDS.—Cash Retail Business situate in excellent market position; increasing turnover, at present averaging £40 per week; net profit £550 per annum; stock and fixtures worth £1,300; long lease at reasonable rental, or premises may be purchased; price all at £1,500; Vendor retiring.

6.—LONDON, W.—Old-established Main Road Cash Retail Business with large Panel; gross profit last year exceeded £1,100; single-fronted shop, well fitted and stocked; good living accommodation; rent £150; long lease; price £1,500 or offer, or as an alternative valuation terms would be entertained.


7.—MIDDLESEX.—Mixed Retail Business with Post Office attached, for immediate disposal; suitable for chemist desirous of semi-retirement; situate in good-class growing district; six-roomed house with private entrance and garage; conservatory and long garden with fruit trees, also additional garden 90 ft. by 30 ft. with fruit trees, etc.; rent £78 per annum; 20 years' lease; present takings about £27 weekly, increasing; price for quick sale £850; no further opposition possible.

CHRISTMAS 1933

A Happy Christmas
and
A Prosperous
New Year
To All

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.



Ernest J. George & Co.
Chemists Valuers & Transfer Agents.

Bank Chambers, 329, High Holborn, London, W.C.1.
Telephone Nos. Holborn 1167 & 1278, (2 lines).
Tudor House, Walsall, Telephone, Walsall, 3774.

(C1) SOUTH COAST.—Attractive modern business, with exceptionally good scope for further development; turnover for year ended October, 1933, as per audited figures, £2,597, with gross profit £940; an annual turnover of £4,000-£5,000 should be easily attainable, if the full possibilities of the business are exploited; the premises are particularly attractive, and capable of great improvement; stock and fixtures estimated at approximately £850; purchase price by negotiation.

(C2) LONDON, NORTH.—Old-established pharmacy, situated in busy main thoroughfare, for disposal owing to ill-health and retirement; in present hands 35 years; turnover for 1932 financial year £1,000, but these figures represent no criterion for the future, as the proprietor has been unable to devote the necessary attention to the business for some time past; living accommodation; rent £100 per annum, plus rates; lease 13 years unexpired; stock and fixtures recently valued at £400; price £600, but offers considered.

(C3) LONDON, S.E.—Established retail business with exceptionally heavy insurance panel; turnover approximately £1,400 per annum, with gross profit £550; rent £55, including small house; apart from the N.H.I., which averages over 1,000 scripts per month, the business has not been exploited to any extent; no near opposition; price £850, including stock, approximately £400; offers considered.

(C4) WEST HAM (NEAR).—Good family and dispensing business, offering plenty of scope for development; present returns approximately £25 per week; rent £52 per annum, including small house with three bedrooms, or property could be purchased; price £700 (open to offer).

(C5) SUSSEX.—Pharmacy (lock-up), situated in pleasant seaside resort (not Brighton or Hastings); present turnover approximately £1,750 per annum; rent and rates £60; lease 21 years; price £850; this proposition should be admirably suited to a single lady or gentleman Pharmacist.

(C6) BERKSHIRE.—Attractive modern pharmacy, with small labour-saving flat, situated in pleasant residential district; the turnover at the moment is at the rate of approximately £2,000 per annum, and is steadily increasing; no near opposition; reasonable rental; long lease; price £1,400, or near offer.

(C7) DULWICH.—Cash business showing present returns of £18/£20 weekly, with plenty of scope for development under personal proprietor-

ship; rent and rates approximately £80 per annum; price about £400 all in, according to value of stock; part might remain for a short period if necessary.

(C8) BIRMINGHAM SUBURB.—Pharmacy with living accommodation, situated in busy main shopping thoroughfare; turnover for 1932-33 financial year £1,176 with net profit approximately £300; rent £75 per annum; rates about £25; price for quick sale £650, or stock and fixtures at valuation (no goodwill asked).

(C9) HERTFORDSHIRE.—Attractive lock-up pharmacy which has shown steady and consistent increase during the past two years; present returns £30-£35 weekly; net profit for last financial year upwards of £400; rent and rates about £77 per annum; price £1,100, including stock and fixtures estimated at £750.

(C10) NORTH CHESHIRE.—Established retail business with living accommodation; turnover for 1932-33 £1,512; property can be purchased or leased at a reasonable rental; no near opposition; £100 is asked for the goodwill of the business, plus the value of stock and fixtures.

(C11) CLAPHAM (NEAR).—Established middle-class business prominently situated and offering plenty of scope for development; present returns approximately £1,200 per annum; reasonable rental, which is more than covered by income from subletting; main road situation; reasonable purchase price.

(C12) KENT COAST.—Pharmacy, with small flat available, if required, situated in pleasant seaside resort; turnover approximately £1,000 per annum; net profit about £245; excellent scope for further increase; low rental; good lease; price £500 all-in.

(C13) SURREY.—Pharmacy, with up-to-date living accommodation, including bathroom and garage, situated in congenial residential district; present returns approximately £2,000 per annum; gross profit about £760; rent £150; lease 20 years unexpired; no near opposition; price £1,200, or near offer.

(C14) BRIGHTON.—Pharmacy and branch business (unqualified) for disposal, either jointly or separately; both businesses are stated to be steadily increasing, and producing an aggregate income of approximately £500 per annum; the businesses can each be acquired at an all-in figure of £450, or, alternatively, on valuation terms; owner leaving district owing to personal circumstances, and early sales are desired.

CHRISTMAS AND NEW YEAR GREETINGS TO ALL

BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—SURREY (20 miles out).—Good-class Retail and Dispensing Business, in good residential district; turnover about £2,500; net profit £500; low rent; long lease; living accommodation over; excellent stock; price £1,750.

2.—MIDLANDS.—Light Family Retail with N.H.I., in thickly populated district; no near opposition; returns last year £1,321; rent £52; on lease; corner shop, well stocked; owner ordered South; price £800 or £200 plus valuation.

3.—SUSSEX (near Coast).—Good-class Family Retail; in small town; returns £1,450; net profit £340; scope for increase; rent £65, on lease; well-fitted pharmacy; fully stocked; price £800.

4.—NOTTS.—Light Family Retail, in main-road position; returns £750; net profit £200; rent only £52; large shop, with house attached; stock worth £250; price £400.

5.—SOMERSET.—Unopposed Country Drug Stores, pleasantly situated; returns about £800; scope in Qualified hands; nice house and shop; electric light, main water, drainage, &c.; owner retiring; price, with freehold, £800 or near offer.

6.—SOUTHEAST-ON-SEA.—Very profitable Business; returns over £650 under unqualified; plenty of scope; net profit £250; low rent; lock-up shop, room behind; no near opposition; price for quick sale £145.

7.—HERTS.—Newly-established Business, in rapidly growing district, with excellent prospects; present return £15 weekly; lock-up shop; well stocked; price £350 or offer.

8.—LONDON, N.W.—Old-established General Cash Retail, with large Panel; busy main-road position; returns average £2,500, under management; scope for increase; rent £110, including living accommodation; price £2,000.

9.—SLOANE SQUARE (near).—Good-class Business; in good position; returns £25 to £30 weekly under management; plenty of scope; owner going abroad; will accept £850, bare valuation.

10.—LEWISHAM (near).—Cash Chemist's Business, with Photo and N.H.I., both latter steadily increasing; development suffering from lack of capital; price £60, plus stock at valuation (in all about £130).

Businesses Wanted

Estab. 1870.

Telephone: Terminus 3574.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

(Business Agency, Transfer & Valuation Department)

KIMBERLEY HOUSE, and at EXCHANGE CHAMBERS, Holborn Viaduct, LONDON, E.C.1 2 Bixteth St., LIVERPOOL.

PARKIN S. BOOTH, Valuer. Tels.: CITY 3691 (4 lines).

VALUATIONS, SALES OF BUSINESSES. STOCKTAKINGS.

Enquiries Invited.

S. F. CLARK, F.N.A.A. 'Phone: Prospect 3366

CHEMISTS' VALUER & TRANSFER AGENT

34 Marksbury Avenue, Richmond, Surrey

Has a number of genuine businesses (all parts of London and provinces) for disposal, with turnovers ranging £1,200-£2,500.

Enquiries from bona-fide buyers invited.

ANNUAL STOCKTAKING a Speciality.

TO GET INTO DIRECT TOUCH

with the best buyers of Drugs, Chemicals, and allied products

ALL OVER THE WORLD

use regularly the publicity service afforded by

THE CHEMIST & DRUGGIST

BUSINESSES FOR DISPOSAL.

NORTHANTS.—An Old-established Business for disposal; owner retiring; usual routine of a Chemist, including N.H.I., Photography, &c.; no immediate opposition; good opening for Optics or Dentistry; shop well fitted and stocked; rent, rates, &c., £100; incoming about £600, part of which could remain if desired; further particulars on application to bona fide purchasers only. 233/368, Office of this Paper.

FOR Sale in South of Scotland, beautifully fitted Modern Pharmacy; turnover £1,500 per year approximately; price £900; cash transaction; references required and given to genuine buyer. 560/5, Office of this Paper.

BUSINESSES WANTED.

MANCHESTER (10 miles' radius).—Chemist's Business required; working-class district; cash transaction. "Statim," 560/260, Office of this Paper.

PREMISES TO LET.

NEW CROSS.—Shop, 78 by 16 ft; six rooms over; multiple position; rent £175. Green, D.P.M. Hotel, 61 Chepstow Place, W.2.

OPENING for Chemist in excellent parade of twelve shops in a new but rapidly growing Western suburb, near Ealing; several shops already let; each with excellent flat over; present population fully sufficient to support present shops, but district is growing rapidly and values bound to increase. Apply Sole Agents, Healey & Baker, 29 George Street, Hanover Square, W.1.

SHOP and Basement to Let, corner shop, facing Bedford Row; moderate rent; ideal for Chemist; no opposition. Apply C. Rowley, 14 Bow Lane, E.C.4.

PREMISES FOR SALE.

ADDLESTONE, SURREY.—Shop Premises for Sale; splendid opening for Chemist's Business in populous and growing district. Apply Smith Bros. (Builders), Ltd., West Byfleet, Surrey. Phone: Byfleet 264.

APARTMENTS.

WHEN YOU COME TO LONDON STAY AT THE HAMPDEN RESIDENTIAL CLUB.

FOR GENTLEMEN, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 bedrooms. 12s. 6d. to 25s. per week, including baths, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

AGENCIES.

LEADING Manufacturers of Perfumery and Cosmetics offer General Agency for Great Britain. Financially sound firms having good connections in the trade and first-class sales organisation please write, with references, to 232/357, Office of this Paper.

PATENTS.

THE PROPRIETOR of British Patent No. 258704, dated July 18, 1925, relating to "Improvement in a Process for Making Pills Having an Oily Material as One of the Ingredients," is desirous of entering into arrangements, by way of a licence or otherwise, on reasonable terms for the purpose of exploiting the above patent and ensuring its practical working in Great Britain. Inquiries to B. Singer, Steger Building, Chicago, Illinois.

APPRENTICES.

APPRENTICESHIP required by Lady (18) in London; salary required; holds Part I exam. Burns, County Hall, Westminster, London, S.E.1.

SITUATIONS OPEN.**RETAIL (HOME).**

CROYDON MENTAL HOSPITAL, Upper Warlingham, Surrey.—Lady Dispenser wanted; must be fully qualified and capable of doing photography; age not to exceed 30 years. Salary commencing at £120 per annum, rising by annual increments of £20 to £180, together with board, lodging and laundry, at present valued for superannuation purposes at £71 3s.; there is at present a temporary economic cut of £2 1s. 2d. per annum. The selected candidate will at first be on three months' probation and will be required to undergo a medical examination during that period. Upon confirmation the post is subject to the Provisions of the Asylum Officers' Superannuation Act, 1909. Apply to the Medical Superintendent, stating age and qualifications and enclosing copies of two testimonials and photograph.

EALING (near).—Experienced Male Dispenser, no Counter work, required immediately for about three months, in high-class Dispensing business; state wages; send no original testimonials, photo or stamped envelope; applications unanswered in a few days declined with thanks. 559/39, Office of this Paper.

LONDON, E.7.—Capable Junior required immediately for middle-class business; must be good Dispenser and Window-dresser; send full details of experience, references and salary required; not answered 7 days respectfully declined. 560/3, Office of this Paper.

MANCHESTER.—Capable Unqualified Assistant required (about 30); experienced in all branches of trade; with knowledge of Optics preferred; super Salesman, good Window-dresser, accurate Dispenser; only capable and reliable men need apply, stating salary and when at liberty. Aspirin, 560/26, Office of this Paper.

QUEEN MARY'S HOSPITAL FOR THE EAST END, Stratford, E.15.—Applications are invited from Male applicants for the post of Dispenser; he must be fully qualified; salary commencing £250 and rising to £300 per annum; lunch and tea provided; applications, accompanied by copies of recent testimonials, to reach the undersigned not later than Wednesday, January 3, 1934. Raphael Jackson, Major, Secretary.

WEST MIDDLESEX.—(Lady) Junior or Improver; Dispensing and Counter experience; full particulars and salary required. 560/10, Office of this Paper.

CAPABLE and Honest Managing Assistant wanted, Unqualified, and Book-keeper. 233/369, Office of this Paper.

CHEMIST-MANAGER for Midland town wanted; good Salesman and Window-dresser; knowledge of Photography. Write, stating age, experience, salary required, &c., to "Advertiser," 214 Pineapple Road, Kings Heath, Birmingham.

JUNIOR Assistant (gent.). Full particulars first letter to Seth Harry, Ltd., Chemists, Okehampton.

LADY Assistant, Qualified, for small business, mostly working class; adaptable, reliable and sociable; able to prescribe. Particulars of experience, age, height, salary required, enclosing snapshot, to 559/2, Office of this Paper. Applications not answered in 7 days respectfully declined.

MANAGER, M.P.S., to open new branch mid-January; permanency; knowledge of Optics an advantage, but not essential; good living accommodation; all-round experience. Applications must state age, salary, references, &c., endorsed "Pharmacy," and addressed "The Committee," Pendleton Co-operative Industrial Society, Ltd., 3 Mill Street, Pendleton, Salford.

PHARMACY.—Unqualified Male Assistant; good all-round experience, Dispensing, &c., necessary. Write, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note.—Canvassing of members of the General Committee or officials will disqualify.

QUALIFIED Man to manage village branch (established 1927) South Suffolk; must be energetic and have first-class references; if married, house available; if no reply is received by applicant before January 2, 1934, respectfully declined; state salary required in first letter. 559/29, Office of this Paper.

WANTED, a Qualified Assistant; smart appearance, expert Salesman, excellent Window-dresser; capable and not afraid of work. State age, salary, experience, when free, to K., 77 High Street, London, N.W.1.

WANTED for March 1, Permanent Qualified Manager, married, for easily worked single-handed business, Lancashire Coast; practical sight-testing knowledge preferred, but not essential; good living accommodation, with rates, light and water found; state fullest particulars, also age, salary required, photo, &c., in strict confidence; only those desiring permanency need apply. 559/31, Office of this Paper.

WANTED on January 20, Nurse Dispenser for Doctors' Surgery, to assist partners and help Lady Dispenser; please state salary required and enclose copies of three recent testimonials. Drs. Bullmore, Butterworth and Parker, Wisbech.

YOUNG Qualified Chemist required immediately as Branch Manager; must have had some previous experience of management. Give full details of experience, &c., in first letter to Browns Chemists (Stoke-on-Trent), Ltd., 27 Stoke Road, Stoke-on-Trent.

CLEAR-OUT—your Old or Damaged Stock of Photo Goods. Why keep them any longer? Turn them into CASH. I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers, Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

YOUNG Qualified Manager (Male) required for immediate vacancy in good-class pharmacy; must be good Dispenser, Counter man and Window-dresser. Apply, stating experience, age, height, salary required, to T. Vernon Evans, 64 High Street, Ruislip, Middlesex.

WHOLESALE.

ASSISTANT to Publicity Manager required for old-established British company located London distributing seasonal products through Ironmongers, Seedsmen and Chemists; must have practical knowledge of publicity and latest advertising methods; age 28 to 35; good salary and prospects; applications, stating education, training, experience, present earnings, age, and if married, to be typewritten and accompanied by hand-written letter. Apply Box No. 88, 191 Gresham House, E.C.2.

REPRESENTATIVE required immediately by firm of Soap and Perfumery Manufacturers to call on Chemists in Northumberland, Cumberland, Westmorland, &c.; no application will receive consideration unless fullest particulars are given as to age, experience, &c., which will be treated in strictest confidence; salary, expenses and commission basis. 233/367, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

A.A.A.—DISPENSER, Photography, Counter, Prescriber; tall; abstainer; good references; unregistered; West End 10 years. MacLellan, Wotton-under-Edge.

ALL-EXPERIENCED Assistant, senior; manage under principal; Unqualified; best record and references; indefatigable, conscientious; state salary. Nairne, "Melbourne," Brading.

AS Locum, Manager or Assistant, "not registered"; over 30 years' London experience; whole or part time; Counter, Book-keeper, Dispensing and worker; London only. "Prescriber," 130 Scott-Ellis Gardens, N.W.8.

ASSISTANT (25 years); good experience Dispensing and Counter; accustomed to manage; single; Unqualified. Statim, c/o Mr. Sands, Lezayre Road, Green Street Green, Farnborough, Kent.

ASSISTANT (40), experienced all branches, excellent references, unregistered, accustomed to management. "H.," 370 Yew Tree Terrace, Shawforth, near Rochdale.

ASSISTANT (30), Unqualified; 14 years' experience; Prescriber; manager; disengaged. K., 87 Sixth Avenue, Manor Park, E.12.

EFFICIENT Assistant (24), Unqualified, seeks permanency; London or South; experienced all branches; London, West and South Coast; excellent references; interview; free after Christmas. Apply King, 17 Walton Street, Oxford.

M.P.S. (1930), F.B.O.A. (1931), J.C.Q.O. (24); excellent pharmaceutical experience, all branches; capable Optician; accustomed to management; permanency or locum; disengaged. Moore, 71 Trafalgar Road, Newport, I.O.W.

PHARMACY Student (lady), with Part I and 1 year's experience, desires post as Assistant in a Midland Pharmacy. Miss E. Fitch, Belmont, Tamworth, Staffs.

QUALIFIED (28); first-class experience; tall, energetic worker; thoroughly reliable; as Manager or Assistant. 553/4, Office of this Paper.

QUALIFIED (23½), married; Counter, Dispensing, D. & P.; anywhere; free after January 6. C. Ormston, 10 Cornhill, Ottery St. Mary, Devon.

UNQUALIFIED desires change offering scope; quick high-class Counter and Dispensing experience; expert Window-dresser and accustomed to being left in charge; age 27 years; highest references. C. J. B., 141 Park Road, Hornsey, N.8.

UNQUALIFIED requires post immediately; 6 years' experience; City/country trade; references excellent. Cave, Cedar Cottage, Theatre Street, Dereham.

WHOLESALE.

CHEMIST, not fully qualified, desires position as Works Manager or Chemist at small factory; accustomed to staff supervision and manufacture of Pharmaceuticals, Toilet Preparations, Pills, Emulsions, Inks, &c., by machinery or hand labour. "Randwick," Pannal Ash Road, Harrogate.

MISCELLANEOUS.

A COMPLETE PHARMACY IN OAK.—Wall Fitting, Counter, Dispensing Screen, Window Enclosures, Wall Cases, £298; adjustable to any size shop. PHILIP JOSEPHS & SONS, LTD., 90/2 St. John Street, Clerkenwell, E.C.1 Telephone: Clerkenwell 2191. "Pharmacy Fitters for over a Century."

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-Glass Counters, Cash Tills, Display Stands and Glass Shelves, &c., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

CHEMISTS' FITTINGS IN OAK OR MAHOGANY.—Wall Cases, Drug Fittings, Serving Counters, Dispensing Screens, All-glass Counters, Silent Salesman, Counter Drawers. Send for prices and get value for money; rough sketches free. GEORGE COOK, The Working Shopfitter, 27 Macclesfield Street, E.C.1. 'Phone: Clerk. 5371.

LIMITED COMPANIES REGISTERED.—I have now been engaged in this work over 20 years, so you may rely that my experience in Chemist and other Companies (I take all trades) is hard to beat. Most reasonable and inclusive Fee. Advice free. A. B. SLACK, 721 Princess Road, West Didsbury, Manchester.

MANUFACTURE IN INDIA.—If you are interested in Manufacture or Experimental Work in India, consult us first. Chemical Factory fully equipped with steam, gas and electricity; analytical and technical laboratories; expert supervision available. Smith Stanistreet & Co., Ltd., Manufacturing, Analytical and Consulting Chemists, P.O. Box, 172, Calcutta.

MANUFACTURER offers Manufacturing Process for the production of blanc Fixe direct, Blanc Satin, Barium Nitrate and all Strontium Salts. Write to 232/356, Office of this Paper.

SACCHARIN.—We can supply the Raw Material and an easy and simple process for the manufacture of Saccharin. Write "X" 233/366, Office of this Paper.

SHOPFITTINGS AND FIXTURES.—King's can equip a Pharmacy, with a complete range of modern fixtures in oak or mahogany from £75; we would welcome a visit to our showrooms; now ready, new catalogue No. C.D. 1013, post free on application. J. C. KING, LTD., 42-60 Goswell Road, London, E.C.1.

£9—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showroom a Complete Chemists Shop with Metal Shop Front, Window Backs, Correct Window Lighting Signs and Modern Interior Fittings. Apply for Lists. D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

THE SUPPLY OF SUPPLEMENTS

On receipt of addressed Post Office Wrappers (not more than six at a time) stamped 1d. the Chemist and Druggist Supplement will be forwarded without cost.

LOOSE STAMPS WILL NOT BE ACCEPTED

If wrappers bear a halfpenny stamp only, postal delivery may be delayed.

TRADE



MARK

In wishing a seasonal

Greeting

and Prosperity for 1934

we take the opportunity of thanking
our many friends for the valued
support they have given us
during 1933



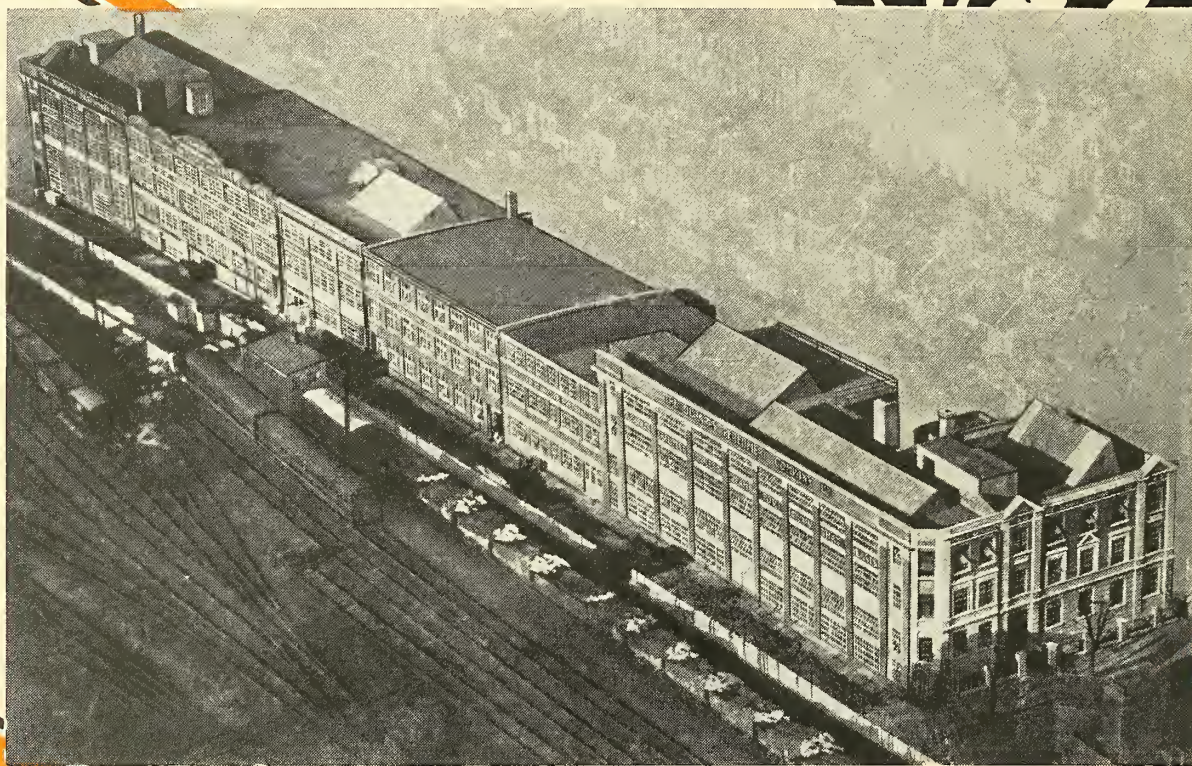
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(1932) LIMITED

SOUTHWARK, LONDON



AERIAL VIEW OF THE DUBARRY LABORATORIES. FRONTAGE 545 FEET TO THE SOUTHERN RAILWAY.
FLOOR SPACE OVER 85,000 SQ. FEET.

CORDIAL

XMAS

GREETINGS

**AND GOOD WISHES FOR A
PROSPEROUS NEW YEAR**

THE DIRECTORS ALSO WISH TO EXPRESS
THEIR HEARTY THANKS FOR THE SUP-
PORT OF THEIR MANY CUSTOMERS
WHICH HAS ENABLED AN ALMOST
OVERWHELMING VOLUME OF XMAS
BUSINESS TO BE TRANSACTED AND A
NEW HIGH RECORD TO BE ACHIEVED.

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LABORATORIES
HOVE.**

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